REMEDIAL ACTION CONSTRUCTION SUMMARY REPORT

SUPPORT FACILITY MODIFICATIONS

McCormick & Baxter Creosoting Company Portland, Oregon



May 2006

Task Order No. 71-03-21



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Prepared for:

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY

811 Southwest Sixth Avenue Portland, Oregon 97204

able of Contents

Section		Page	
1	Intr	oduction	1-1
	1.1	Remedial Action Overview	1-1
	1.2	Site Location and Description	1-2
	1.2	Site Background and ROD Requirements	1-2
	1.3	Report Objectives and Organization	1-3
2	Ren	medial Action Implementation	2-1
	2.1	Contracting and Subcontracting	
	2.2	Pre-Construction Activities	2-2
		2.2.1 Pre-Construction and Preparatory Meetings	2-2
		2.2.2 Submittals	2-3
	2.3	Construction Activities	2-4
		2.3.1 General Mobilization and Site Preparation	2-4
		2.3.2 Earthwork	2-5
		2.3.2.1 Materials and Equipment	2-5
		2.3.2.2 Execution	2-5
		2.3.2.3 Quality Control/Quality Assurance	2-6
		2.3.3 Concrete	
		2.3.3.1 Materials and Equipment	
		2.3.3.2 Execution	
		2.3.3.3 Quality Control	
		2.3.4 Shop Building	
		2.3.4.1 Materials and Equipment	2-10
		2.3.4.2 Execution	
		2.3.4.3 Quality Control	
		2.3.5 Site Electrical	
		2.3.5.1 Materials and Equipment	
		2.3.5.2 Execution	
		2.3.5.3 Quality Control/Quality Assurance	
		2.3.6 Shop Electrical	
		2.3.6.1 Materials and Equipment	
		2.3.6.2 Execution	
		2.3.6.3 Quality Control	
		2.3.7 Water Distribution	
		2.3.7.1 Materials and Equipment	2-12

Table of Contents (Cont.)

Sect	Section		Page	
		2.3.7.2 Execution	2-13	
		2.3.7.3 Quality Control		
	2.4	Change Orders and Project Deviations		
	2.5	Health and Safety		
	2.6	Community Relations		
	2.7	Documentation		
		2.7.1 Oversight Documentation		
		2.7.2 Employee and Visitor Log		
		2.7.3 Weekly Progress Meetings		
		2.7.4 Record Drawings		
	2.8	Demobilization		
	2.9	Chronology of Major Events		
3 4	Project Quantities and Costs			
App	endix	x		
Α	Select SubmittalsA-			
В	On	On and Off-Site Material Test ResultsB-		
С	Fiel	Field Communications and Change Orders C-1		
D	Dail	ly Field Reports	D-1	
E	Pho	otodocumentation	E-1	

ist of Tables

Table

[none]

002688.OY21.29.03

ist of Figures

Figure

1-1 Site Location Map

002688.OY21.29.03 V

ist of Acronyms

AASHTO American Association of State Highway and Transportation

AISC American Institute of Steel Construction

ASTM American Society for Testing and Materials

AWWA American Water Works Association

CFR Code of Federal Regulations

COP Construction Operations Plan

CQAP Construction Quality Assurance Plan

CSR Construction Summary Report

DEA Dean Evans and Associates

DEQ Oregon Department of Environmental Quality

DIP Ductile Iron Pipe

E & E Ecology and Environment, Inc.

EPA United States Environmental Protection Agency

ESA Endangered Species Act

ESD Explanation of Significant Difference

McCormick & Baxter Creosoting Company, Portland Plant

MBI Morse Bros., Inc.

NEC National Electric Code

NEMA National Electrical Manufacturers Association

NFPA National Fire Protection Association

NOAA National Oceanic and Atmospheric Administration

NOAA Fisheries National Oceanic and Atmospheric Administration National

Marine Fisheries

NPDES National Pollutant Discharge Elimination System

NPL National Priorities List

NSF National Science Foundation

ODOT Oregon Department of Transportation

002688.OY21.29.03 VII

List of Acronyms (Cont.)

OSHA Occupational Safety and Health Administration

PAHs polynuclear aromatic hydrocarbons

PCP pentachlorophenol; Pollution Control Plan

PVC Polyvinylchloride
QA quality assurance
QC quality control

RA remedial action

RAOs remedial action objectives

RCRA Resource Conservation and Recovery Act

RD remedial design

ROD Record of Decision

SWPPP Stormwater Pollution Prevention Plan

UBC Uniform Building Code

V Volt

002688.OY21.29.03 VIII

1

Introduction

Ecology and Environment, Inc., (E & E) under contract with the Oregon Department of Environmental Quality (DEQ), has prepared this Remedial Action (RA) Construction Summary Report to document remedial actions implemented to address contaminated soil and groundwater at the McCormick & Baxter Creosoting Company, Portland Plant (McCormick & Baxter) Superfund Site in Portland, Oregon (Figure 1-1).

This document has been prepared under DEQ Task Order No. 71-03-21, which concerns implementation of Remedial Design (RD)/Remedial Action (RA) activities at the site in accordance with the remedy described in the *Record of Decision* (ROD; EPA/DEQ 1996), the March 1998 *ROD Amendment* (EPA/DEQ 1998), and the August 2002 *Explanation of Significant Difference* (ESD; EPA/DEQ 2002). This report documents RA activities associated with the installation of the soil remedy in the support area of the site and subsequent reconfiguration of the support facility buildings, utilities, and parking area (i.e., the 'Support Facility Modifications'). These activities are components of the overall implementation of the soil remedy identified in the ROD (see Section 1.2, below).

1.1 Remedial Action Overview

Implementation of this final portion of the upland soil RA occurred in three phases and were completed under three separate contracts. The phases consisted of: demolition and removal of existing structures and debris; modification of the support facility area, documented herein; and construction of an upland cap. Construction summaries of the other two phases (i.e., demolition and removal and upland cap) are covered in separate construction summary reports (CSRs), submitted under separate cover: *Upland Cap Construction Summary Report* (E & E 2006); and *Demolition and Removal Construction Summary Report* (E & E 2006).

The first phase (demolition and removal) prepared the site for construction of the upland cap by the demolition and removal of existing structures such as the maintenance shop building, multiple above ground storage tanks, and utilities; and further prepared the site by removal of miscellaneous debris. The second phase (support facility modifications) involved placement of two feet of clean soil



in the support area of the site (per requirements of the ROD); installation of a new maintenance shop building; installation of a hazardous material storage area; installation of utilities for ongoing activities at the site; and installation of an asphalt pad within the support area. The final phase (upland cap) completed the soil remedy within the upland portion of the site and included the installation of an impermeable cap within the barrier wall area and a two-feet thick soil cap for the remainder of the site.

The initial project plan and construction sequencing was to have the phases completed serially and not concurrently. The modifications to the support area were to be completed prior to the initiation of construction activities related to the upland cap. However, delays created changes in the project plan and sequence. As such, some of the construction activities associated with the support facility modifications were performed simultaneously with the upland cap construction and some components were transferred to upland cap contract (e.g., asphalt and fencing within support area), which was awarded to the same general contractor.

1.2 Site Location and Description

Located on the east bank of the Willamette River near river mile 7, the site encompasses approximately 41 acres on land and 23 acres in the river. The site is situated downstream of Swan Island and upstream of St. John's Bridge. The upland portion is on a terrace of imported sand fill (dredged material placed in the early 1900s) within the floodplain of the Willamette River. The upland area is generally flat and lies between a 120-foot-high bluff along its northeastern border and the crest of a graded bank approximately 20-feet above the Willamette River to the southwest.

An elevated rail line owned by Burlington Northern Railroad borders the northwestern property line. The northeastern property line is bordered by a rail line owned by the Union Pacific Railroad. The site's southern most property line is bordered with a vacant industrial property. The entire perimeter of the property is fenced, and warning signs are posted on the fence. Residents are situated along the top of bluff overlooking the site.

The property is accessed via the partially paved North Edgewater Street, which leads from Willamette Boulevard to the main gate near the northwest corner of the site.

1.2 Site Background and ROD Requirements

McCormick & Baxter was founded in the early 1940s to produce a variety of treated wood products during World War II. Various wood treatment processes were used at the site including pentachlorophenol (PCP), creosote formulations, ammoniacal copper/zinc arsenate, a copper/chromium/arsenic formulation, and Cellon. Site investigation between 1983 and 1990 revealed many releases of chemical compounds to soil, groundwater, and sediment. Contaminants detected



at the site include polynuclear aromatic hydrocarbons (PAHs, comprising about 85% of creosote constituents), PCP, arsenic, chromium, copper, and zinc. In 1990, the wood treatment operations ceased and early remedial actions were initiated to remove process equipment, piping, tanks, treatment formulations, and other items.

The ROD identifies selected remedies for contaminated soil, sediment, and groundwater. Over the past several years, a number of inspections, investigations, and RAs have been performed at the site. For a comprehensive overview of the site background and ROD requirements, refer to the *Upland Cap Construction Summary Report* submitted under separate cover by E & E (E & E, 2006).

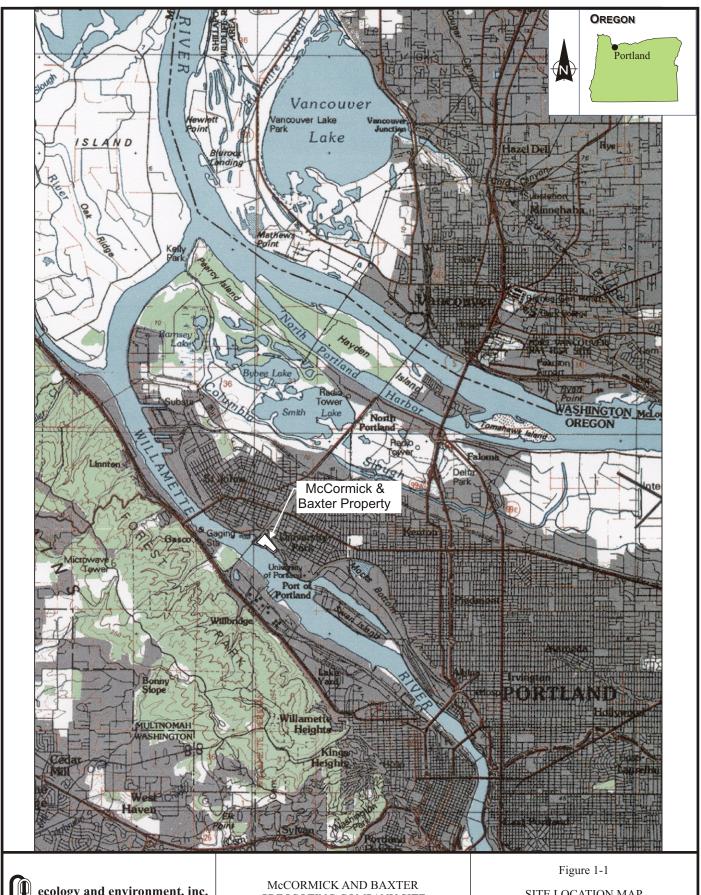
1.3 Report Objectives and Organization

The purpose of this report is to:

- Provide a summary of the RA site activities performed, including descriptions of construction methods;
- Explain modifications made during the RA to the original RA, including a discussion of why changes were made;
- Present the daily reports provided to DEQ:
- Present a chronology of major events;
- Present Record Drawings showing the new site layout; and
- Document RA construction quantities and costs.

The organization of this report is as follows:

- Section 2 provides the details of the RA implementation including contracting and subcontracting; a summary of pre-construction and construction activities; change orders and project deviations; health and safety; community relations; documentation; and a chronology of major events:
- Section 3 documents RA construction quantities and costs; and
- Section 4 lists the references used to complete this report.



ecology and environment, inc.
International Specialists in the Environment
Portland, Oregon

CREOSOTING COMPANY SITE Portland, Oregon

SITE LOCATION MAP

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Remedial Action Implementation

The following subsections provide details of the RA implementation including contracting and subcontracting; pre-construction activities; construction activities, change orders and project deviations, health and safety, community relations, documentation, and chronology of major events.

2.1 Contracting and Subcontracting

E & E, under contract with DEQ, provided environmental engineering and consulting services to implement RD/RA activities including oversight of RAs and the remedial contractors. Activities were conducted in accordance with the ROD, amended ROD, ESD, and DEQ task orders. E & E was responsible for preparation of work plans, implementation of field investigation activities, preparation of data summary documents, preparation of the engineering designs and specifications related to remediation activities, and the procurement and contracting of the remedial contractor.

For the RA construction phase of the project, E & E provided construction oversight and construction management services. During construction, oversight engineers monitored contractor performance and compliance with the contract requirements, conduct inspections, and document work progress and modifications.

After a competitive public procurement process, the construction contract was awarded by E & E to Wilder Construction (Wilder). Wilder (subcontractor to E & E) and their subcontractors were responsible for the physical implementation of the fieldwork specified in the *Contract Documents—Support Facility Modifications* (E & E 2005). As the prime construction contractor, Wilder provided physical labor and operations management for the project. Wilder also provided project management of the subcontractors and the material and equipment vendors that were required to complete construction. Subcontractor and vendor lists are provided below.

Subcontractors and Vendors:

- Ampere Electric of Portland, Oregon provided electrical system materials.
- Anctil Plumbing of Beaverton provided plumbing services.



- Bedford Construction of Portland, Oregon provided structural concrete construction services.
- Brothers Concrete Cutting of Portland, Oregon cut the asphalt in preparation for the construction of subsurface concrete structures.
- Butler Buildings of Kansas City, MO provided the pre-fabricated shop building.
- Carlson Testing of Tigard, Oregon provided materials testing services including concrete quality assurance services.
- Curtis Specialty Welding Services of Portland, Oregon provided metal fabrication services.
- David Evans & Associates, Inc. (DEA) of Portland, Oregon provided surveying services.
- East Jordan Iron Works of Portland, Oregon supplied the sump grates for the shop building, hazardous materials storage area, and the wheel wash.
- H.D. Fowler of Clackamas, Oregon supplied the concrete vaults for the backflow prevention device and the water supply valves.
- Locates Down Under of Portland, Oregon performed utility locating services.
- Midnight Electrical of Portland, Oregon provided electrician support for Ampere Electricity.
- Morse Bros., Inc. of Portland, Oregon, supplied base course and select fill materials.
- Overhead Doors of Portland, Oregon installed the vehicle access doors for the shop building.
- Ross Island Sand and Gravel of Portland, Oregon supplied concrete.
- SMA Building Erectors of Portland, Oregon assembled the prefabricated Butler Building.
- Utility Vault of Wilsonville, Oregon supplied the precast concrete fire hydrant valve and service valve vault and the vault for the backflow valve.

2.2 Pre-Construction Activities

This section summarizes the pre-construction activities including meetings, submittal delivery and review procedures, and permitting.

2.2.1 Pre-Construction and Preparatory Meetings

Prior to construction activities, a required pre-construction meeting was held. Attendees included E & E's project manager, project engineer, and oversight supervisor; and Wilder's key project personnel including the project manager and site superintendent. The topics presented and discussed during the meeting included staff introductions, a scope of work summary, relevant documents, submittal requirements, health and safety, site access and transportation, site





constraints, construction schedule and sequencing, and construction procedures and testing.

2.2.2 Submittals

Per Section 01300 of the *Contract Documents*, Wilder and their subcontractors and/or vendors were required to prepare and deliver submittals to E & E including plans [e.g., construction operations plan (COP) and health and safety plan, etc.], shop drawings, and product data on materials and equipment. The submittal delivery and review procedure was established at the beginning of the project and refined throughout. The steps in the submittal procedure were as follows:

- 1. Wilder delivered submittals to E & E with an associated electronic copy of a transmittal and tracking form. Information contained on the form included a description of the material or product; a reference to the applicable specification section or sections; an area for the reviewing engineer to present the results of the review; and the submittal number with serial tracking number (re-submittal number). A majority of the submittals were delivered as hardcopies per the *Contract Documents*. However, certain pre-approved exceptions were allowed in which the delivery of the submittal was made electronically via email. The specified numbers of hardcopies of the submittal (six) were delivered to E & E's field office trailer for distribution.
- 2. Upon reception of each submittal, E & E recorded the delivery in a log and then prepared it for distribution. Submittals that were not time critical were distributed weekly during the Weekly Progress Meetings. Submittals that required expedited review were mailed as overnight delivery to the reviewing engineer(s). Submittals that were delivered electronically via email were tracked following a similar log-in and distribution procedure to ensure accurate tracking.
- 3. The results of the review process were recorded on the associated electronic cover sheet, which was then returned via email to Wilder with comments attached, as applicable. If the submittal was rejected or additional information was requested by the engineer, then the process was repeated until all required information was received and approved. Tracking forms and logs were updated with a re-submittal number, which was the addition of a number suffix to the original submittal number (e.g. 13.1, 13.2, etc.).
- 4. Per requirements, Wilder maintained and presented at each weekly progress meeting an updated Submittal Log which included the date of the submittal, the date of E & E's response, and the status (e.g., accepted, rejected, accepted with comments, etc.).



The submittals were generally prepared in accordance with the time requirements specified in the *Contract Documents* and were submitted to E & E for review prior to plan implementation and/or material/equipment purchase and/or delivery. Appendix A contains copies of select material submittals (e.g., Butler Building Drawings). A complete set of the submittals are on file at the E & E offices in Portland and Seattle.

2.3 Construction Activities

The support facility modifications consisted of the following major construction components:

- General Mobilization and Site Preparation;
- Earthwork:
- Concrete Structures;
- Shop Building;
- Site Electrical;
- Water Distribution; and
- Demobilization.

Details related to each of these components are provided below.

2.3.1 General Mobilization and Site Preparation

Wilder temporarily relocated the two existing site trailers from the work area to an approve location just to the south of the paved area. In addition, the vehicle wash rack and boot wash were temporarily established outside of the work area. Power and telephone service were established, and a portable generator was supplied for interim power during major electrical system modifications.

Per the general mobilization requirements of the contract, Wilder moved or relocated all equipment, fencing, and other appurtenances as necessary to facilitate work; established and constructed stockpile, staging, loading, unloading, and other work areas; and provided portable field lavatories with hand-wash stations.

Survey Control

Wilder subcontracted David Evans and Associates (DEA) to perform layout surveying services. The planned construction features were laid out from established control points, benchmarks, and baselines indicated on the design drawings. Foundations were made square by the concrete subcontractor using tape measurers and equal diagonal measurements.





2.3.2 Earthwork

2.3.2.1 Materials and Equipment

Select Backfill

The soil remedy for the upland portion of the site (as prescribed in the ROD) required a minimum of two feet of clean soil over the entire site. This soil minimizes the possibility of direct and indirect exposure of terrestrial biota and humans to chemical contaminants remaining in situ. The select backfill material is the bulk volume of clean fill material utilized to meet this requirement in the support area. The material was supplied by Morse Bros, Inc. (MBI) of Portland, Oregon, from their Angell Quarry. Prior to delivery, Wilder submitted samples for testing to Carlson Testing. Analyses performed included fracture particles (TP-61), sieve analysis (AASHTO T 27), and sand equivalent (AASHTO T 176). Wilder utilized typical earthwork equipment to distribute, grade, compact, and test the compacted density of the select backfill. The equipment utilized included excavators, graders, bulldozers, vibratory rollers, grade level lasers, and nuclear density gauges.

Base Aggregate

Base aggregate materials were also supplied by MBI from their Angell Quarry. The base aggregate materials (i.e., crushed rock) were specified for: water supply piping bedding and backfill material, and base and top course material for the asphalt pavement. The designated size of the materials were: 37.5 mm - 0 mm (1-1/2 inch - 0 inches) for the base course; and 19.0 mm - 0 mm (3/4 inch - 0 inches) for the top course and trench backfill.

Demarcation Fabric

Demarcation fabric (i.e., orange construction fencing) delineates the extent of the clean soil cap and serves as a warning marker for future land users that the soils beneath the layer may be contaminated. The fencing is made of high-density polyethylene, is orange in color, and has an ultra violet stabilizer. Panels of the demarcation fabric were fastened together using zip ties.

2.3.2.2 Execution

Trenching

Excavation of trenches; placement of bedding materials; and subsequent backfill and compaction were required to reroute the water supply and to allow reconfiguration of other site utilities.

The excavation of the trench for the water main was initiated on March 29th, 2005, at the point where the back-flow control valve was removed for relocation. This location is approximately 470-feet to the south of the current location of the new fire hydrant. Excavation proceeded north towards the support area. Although it is not necessary to keep pressurized water lines perfectly level and a slight angle decreases the likelihood of air entrapment, a grade level laser was utilized to maintain a level trench excavation and to establish bedding backfill



grades. For a detailed description of the trench backfill, compaction, and completion, refer to Section 2.3.7.2 (water main), below.

In a cost-saving change, subsurface electric and telephone conduit were run on top of existing paving (vs. buried). Therefore, except for a small length of trench for telephone conduit between existing power/telephone pole and the newly placed power pole with meter, there were no trenches dug for electric/telephone utilities.

Select fill

Delivery and placement of the select backfill material began on April 11th and was stopped on April 20th. Prior to placement, DEA performed the necessary layout and grade staking. Per Addendum Number 1 to the Contract Documents, Wilder was required to place demarcation fabric between the existing soil and the select backfill. The select backfill was placed and graded in lifts using a bulldozer and small surface grader. A vibratory roller was utilized throughout placement, and care was taken to ensure that several passes were performed in each area of placement. On April 20th, Wilder's subcontractor for nuclear density testing, Carlson Testing, Inc., performed several tests and was only able to obtain three passing results. The moisture content of the soil was too high, and compaction requirements were not achieved. Multiple attempts were made to dry the material by tilling, turning it over, and allowing it to remain exposed during warm and dry weather, but the moisture retention characteristics did not facilitate drying. During each site visit, the testing inspector produced a report. At the bottom of the report generated during the site visit on April 20th, the inspector noted that pumping of the material was observed. A copy of this report is included in Appendix B. As a result of this situation, E & E issued a field directive (EE-WC-07) on June 10th forgoing paving requirements and transferring the grading requirements to the upland cap contract. Under the support facility modifications contract, Wilder was to place 3/4-inch minus base aggregate material at the entrance to the shop building and as a ramp into the hazardous material storage area. The impacts to the costs of the project from this field directive were addressed in Change Order 1 (see Section 2.4, below). At this point, DEQ was considering leaving the support area without asphalt paving. However, DEQ reconsidered the issue at a later date and decided to implement the asphalt paving (under the upland cap contract).

2.3.2.3 Quality Control/Quality Assurance

Material Testing

Quality control and assurance (QC and QA) for the earthen materials was accomplished by implementation of off-site and on-site material testing and evaluation of the results for compliance with the *Contract Documents*. For off-site material testing, Wilder was required to coordinate the sampling and submit to E & E the results of material testing from an independent laboratory. For on-site testing, Wilder was responsible for retaining qualified personnel to implement



and document on-site testing. For specific testing requirements and frequencies, refer to Section 02200 of the specifications within the *Contract Documents*. It was E & E's QA responsibility to evaluate the results for compliance with the specifications.

Trenching

The QC measures performed by Wilder during trenching procedure were visual monitoring by the Site Superintendent and grade level checking during excavation and bedding material placement. QA measures taken by E & E included regular visual inspection and verification that the specified trenching procedures were being followed.

Select Backfill

During the placement of the Select Backfill, Wilder regularly checked placed materials to survey staked elevations and grades using a laser grade level. E & E oversight personnel performed visual inspections and checked the information written on the survey stakes for compliance with design drawings.

2.3.3 Concrete

2.3.3.1 Materials and Equipment

Concrete was supplied by Ross Island Sand & Gravel Co. and MBI and was placed by Bedford Construction. Concrete installed during this RA has a minimum compressive strength of 4,000 pounds per square inch and has a mix design that conforms to ODOT 00540.13 specifications. Reinforcement steel is grade 60 meeting ASTM A615 requirements. Standard carpentry and concrete tools were utilized to: construct and place the concrete forms and batter boards; cut and bend the rebar; place and secure the rebar and reinforcements; and perform finish work.

Precast Valve boxes and Vaults

The precast fire hydrant valve box and backflow valve vault were supplied by Utility Vault of Wilsonville, Oregon. The fire hydrant and service valve box is a model number 444-LA, which has overall dimensions of 4-feet in length, by 4-feet in width, and 4-feet in depth, including the top (a galvanized metal diamond plate door with locking latch). The vault for the backflow valve is a model number 5106-3-LA, with overall dimensions of 11-feet 2-inches by 5-feet 8-inches by 6-feet 2-inches high, including the lid. The lid has spring assisted locking aluminum doors.

2.3.3.2 Execution

Bedford Construction was Wilder's subcontractor for the construction of all structural concrete features, which included the construction of the foundation footings, piers, and slab floor for the shop building, the hazardous materials storage area, the wheel wash, and the base for the luminaries (next to the shop building). Industry typical means and methods were employed to construct the



forms and batter boards, place and secure rebar, and perform finish work. The forms and batter boards were constructed using plywood, metal form stakes, and dimensional construction lumber. Elevation and grade control was accomplished with a combination of grade level lasers, carpenter's levels, string lines, and straight edges.

2.3.3.2.1 Concrete features of the Shop Building

The construction of the shop building's six structural footings and piers occurred from April 7th to the 14th, 2005. In preparation for concrete installation, Wilder retained Brothers Concrete Cutting to cut the asphalt at the six locations surveyed by DEA. Wilder then excavated to the depth required utilizing surveyed elevations and a grade level laser. After excavation, Wilder used a plate compactor on the moisture conditioned soil to ensure that the bearing surfaces were competent. The foundation footings and piers were then constructed by Bedford Construction. The footings and piers were poured on the same day, April 13th, but were not monolithic. The forms were stripped, and finish work was completed on the following day. Once completed, Wilder backfilled the over-excavation in preparation for the shop floor slab construction. The backfilled material was placed in lifts and compacted using the plate compactor.

The shop floor is a six inch thick steel reinforced monolithic slab constructed from April 27th to May 3rd. The slab floor is graded towards a sump in the center of the building.

2.3.3.2.2 Hazardous Materials Storage Area

The Hazardous Materials Storage Area is 30-feet long, 18-feet wide, and has a minimum depth of 3-feet. It was designed and installed to be double containment storage for hazardous materials. The interior is graded to direct spilled liquid or rain water to a sump along the south wall. The design incorporates a 7-foot 9-inch wide ramp with a 5% grade along the west wall. This ramp allows the placement and removal of 55-gallon drums with a forklift or drum dolly from an entrance on the south side.

2.3.3.2.3 Tire Wash

A new tire wash was constructed in the southwest corner of the support area. It was constructed from May 11th to the 13th. Bedford Construction used similar construction methods as those used to construct the hazardous materials and the shop floor with one notable exception: the rebar schedule was significantly different from the others. The rebar diameter was too large to allow cutting and bending on-site, and therefore, the rebar was pre-fabricated and delivered at lengths specified.

2.3.3.2.4 Luminaire Base

A cylindrical steel reinforced concrete base was required for the luminaire. The concrete structure provides a mounting surface and ballast. The construction of



the base reasonably conformed to the accepted submittals, the design drawings, and the specifications, except for one slight field modification: the bolts, as represented in the associated submittal and delivered to the site, were 10-inches too long for the designed base. The base was designed to have the appropriate ballast by being larger in diameter and not as deep, which was an attempt to minimize excavation into possibly contaminated site soils. The manufacturer specifications require that the bolts be completely embedded in the concrete. E & E and Wilder determined that the most cost effective and structurally sound method to remedy the situation was to make the lower portion of the base slightly deeper and to raise the mounting plate enough to compensate for the remaining length. The resulting modification was addressed in Change Order 1 (see Section 2.4, below).

2.3.3.2.5 Miscellaneous

Other miscellaneous features of the construction required concrete. They included the thrust blocks; the small support pads for the fire hydrant and 6-inch auxiliary control valve and the backflow assembly; and the installation of the bollards in front of the shop and hazardous materials storage area. The concrete for the thrust blocks and small pads was delivered to the site with concrete required for structural pours. The concrete for the bollards, however, was not, and Wilder was allowed to mix the concrete for the bollards on-site.

2.3.3.2.6 Precast

The precast valve box for the fire hydrant and service valve and vault for the backflow valve were delivered and installed per the specifications and drawings of the *Contract Documents*.

2.3.3.3 Quality Control

With each truck load of concrete delivered to the site, Ross Island Sand and Gravel or MBI supplied a manifest giving the design mix specifications for the batch. Copies of these manifests are included in Appendix B. Wilder retained Carlson Testing Inc. to: inspect concrete forms, batter boards, and rebar configuration for compliance with the design specification and plans; generate a daily field report documenting the observations, samples taken, results of on-site testing, and inspections made during each site visit; sample and analyze aggregates and test the plasticity of the concrete per ODOT 00540.17(a) and (b), respectively; and to take cylinders in accordance with ODOT 00540.16(c). It was the responsibility of E & E's oversight personnel to review the results from the on-site testing and results from the off-site testing laboratory for compliance with the project specifications. Results were found to be in reasonable compliance with the design specifications. The daily reports and results of laboratory analysis are also included in Appendix B.



2.3.4 Shop Building

2.3.4.1 Materials and Equipment

The 40-feet long by 25-feet wide American Institute of Steel Construction (AISC)-certified pre-fabricated metal shop building was supplied by Butler Manufacturing of Kansas City, MO. Prior to delivery, Wilder was required to submit manufacturer shop drawings and building calculations. Copies of the drawings are included in Appendix A. The building is a clear span, self-framing type with a gabled roof and an eave height of 10-feet. It has two side walls and two end walls. One of the 25-foot end walls has two lockable roll-down shop doors. There are two 30-inch wide access doors on each of the 40-foot side walls. The roof and walls are equipped with thermal insulation. The structural mill sections are generally designed in accordance with AISC's specifications for the design, fabrication, and erection of structural steel buildings. The cold-formed steel structural members are generally designed in accordance with AISC's specifications for the design of cold-formed steel structural members.

2.3.4.2 Execution

The shop building was erected by SMA Building Erectors. Erection of the building occurred from June 21st to July 22nd. The delivery of the building was very late and outside the required contract schedule. The manufacturer was retooling, and this caused an approximate 1 month delay in the delivery. For reasons that are unknown, the erection took significantly longer than predicted. As this did not cause any QA/QC problems or added cost to DEQ, the long delivery and erection period did not trigger any liquidated damages clauses.

2.3.4.3 Quality Control

QC and submittal information pertaining to the shop building by the contractor was reviewed for adequacy and compliance with the plans and specifications by E & E. It was during this review that an apparent problem with the column bases was identified by the engineer. Shop design and drawings were modified by the manufacturer and resubmitted. The revisions were found to be acceptable by the engineer.

2.3.5 Site Electrical 2.3.5.1 Materials and Equipment

Materials

A comprehensive list of the required materials is too extensive for this report. For a specific materials list, refer to Section 16000 of the contract specifications.

The following is a list of major electrical components for the site installed by Ampere Electric:

- A service drop and meter box for the 200 amp main with a NEMA 4R 100 amp 2P circuit breaker,
- 3" polyvinylchloride (PVC) buried conduit from the meter box to the main breaker and from main breaker to the site breaker panel located at the



Power Center. Conduit risers to meters and breaker boxes are galvanized steel,

- 2" PVC buried conduit from the site breaker panel to the shop building's breaker panel, Conduit risers to meters and breaker boxes are galvanized steel,
- 2" PVC buried conduit from the site breaker panel at the Power Center to the trailers, Conduit risers to meters and breaker boxes are galvanized steel.
- An 18 circuit panel for the site breaker panel at the Power Center,
- Photocell switched pole mounted dual fixture luminaire located next to the north corner of the shop building, and
- Associated cable, wire, mounting structures, and breakers.

There are two #2 AWG grounding rods installed near and connected to the meter main and two #2 AWG grounding rods installed near and connected to the Power Center with a jumper wire between panels.

Equipment

Standard equipment used by electricians was used on this project. The luminaire was erected using a mobile man-list.

2.3.5.2 Execution

Electrical system installation was performed by Ampere electric with assistance from Midnight Electric throughout the entire duration of the project. Installation was performed in compliance with the applicable Uniform Building Codes and complied with the applicable requirements of NFPA 70 "National Electrical Code" (the NEC), National Electrical Manufacturers Association (NEMA), or other recognized standards.

2.3.5.3 Quality Control/Quality Assurance

After completion of the installation and splicing and before energizing the conductors, the wires were given continuity and insulation tests. Wire and cable in each voltage classification was isolated completely from all extraneous electrical connections at cable terminations and joints. Insulation tests were conducted and readings were taken per contract specifications. No measurement was observed less than 25 megohms.

2.3.6 Shop Electrical

2.3.6.1 Materials and Equipment

A comprehensive list of the required materials was too extensive for this report. For a specific materials list refer to Section 16000 of the specifications.

The following is a list of major electrical components for the shop building installed by Ampere Electric:

• An 18 circuit panel within the shop building on the west wall;



- Two 240V heater units with integral fans, adjustable louvers, integral thermostats;
- Thermostatically controlled mechanically opened and closed intake and exhaust louvers with an attached fan on the exhaust louver; and
- Four banks of fluorescent shop lights control by switch panels next to each access door.

2.3.6.2 Execution

As stated above, electrical system installation was performed by Ampere Electric with assistance from Midnight Electric throughout the entire duration of the project. Installation was performed in compliance with the applicable Uniform Building Codes (UBCs) and complied with the applicable requirements of NFPA 70 "National Electrical Code" (the NEC), NEMA, or other recognized standards.

2.3.6.3 Quality Control

After completion of the installation and splicing, and before energizing the conductors, the wires were given continuity and insulation tests. Wire and cable in each voltage classification were isolated completely from all extraneous electrical connections at cable terminations and joints. Insulation tests were conducted and readings were taken per the specification of the *Contract Documents*. No measurement was observed less than 25 megohms.

2.3.7 Water Distribution

Historic site activities required a water supply network with two supply lines from the service main on Willamette Boulevard and multiple branches for distribution throughout the site to supply industrial processes, office needs, fire suppression needs, and the large quantities of water necessary during the implementation of RAs. Until implementation of this RA, water supply to the support area was through the existing pipe network, which was prone to leakage and was known to be of substandard construction. The site's backflow control valve and site shutoff valve were contained within a dilapidated wood framed metal-sided box that had no apparent connection with the current site configuration. As current and planned site uses do not require an extensive distribution network, an upgraded simplified system was installed with a new water main and service connections. The new water main was connected to the site supply line a few feet in from where it enters the site about mid-way on the northeast side of the property.

2.3.7.1 Materials and Equipment

Water Main

HD Fowler supplied the 6-inch diameter ductile iron pipe (DIP) and the 6 and 8-inch diameter fittings, the 5-1/4-inch fire hydrant, and the 6-inch auxiliary gate valve. The DIP is American Water Works Association (AWWA) A21.15-88 with a CL-53 minimum wall thickness per AWWA C151-75 and is thin cement lined. The fittings are mechanical joint AWWA C153 and flanged type per AWWA C110. The mechanical joint restraints are Megalug® Series 1100. The fire



hydrant is an AWWA C502 compression type manufactured by M&H Valve Co. The auxiliary gate valve conforms to AWWA C509 standards and was also manufactured by M&H Valve Co. The backflow preventer and associated valves, all of which are both relatively new and meet City of Portland requirements, were salvaged and reinstalled.

Service

The service tap is Smith-Blair 311 service saddle for DIP with a ¾-inch Mueller 300 ball valve. The service piping is copper tube type-K supplied by Anctil plumbing.

2.3.7.2 Execution

Water Main

Water distribution modification procedures were started on March 29th with trench excavation from an area near the new tie-in location to the support area. On April 4th, upon excavation of the main supply pipe at the tie-in location, it was discovered that the diameter of the pipe is 8-inch and not 6-inch, as shown on the drawings. It was apparent that a reducing coupler was required and that the location of the backflow valve would not be close-coupled with the main as shown on the drawings. In order for Wilder to make the connection and reuse the backflow valve, it was necessary for it to be moved approximately 12-feet south of the original design location.

Upon completion of the trench excavation, a minimum of 4-inches of ¾-inch minus rock was placed in the trench for pipe bedding. DIP installation began on April 5th. DIP Joints and fittings were installed in accordance with the manufacturer's recommendations and in conformance with the *Contract* Documents, which were developed from AWWA C600 specifications. The bell socket of the pipe or fitting was thoroughly cleaned along with the plain end of the mating pipe. A small loop was placed in the gasket and inserted in the socket. A National Science Foundation (NSF) 61 certified lubricant was applied to the gasket and plain end of the pipe. As the plain end was being lubricated, it was inspected to ensure the end was beveled and did not have square or sharp edges that may damage or dislodge the gasket and cause leaks. The plain end was pushed into the bell of the pipe and 'driven home' using the bucket of the excavator. The pipe was inserted until the bell end of the pipe aligned with the indicator stripe on the uncut plain end and/or an audible metal-to-metal contact tone was heard. Prior to insertion of each pipe section, a cap full of Poollife [granular chlorinator, active ingredient-calcium hypoclorite (68%)] was cast into the installed pipe.

Similar care was taken in following the specifications in the *Contract Documents* during the installation of mechanical joint assemblies and flange connections. The valves and fittings were installed in accordance with manufacturer's



recommendations and within reasonable conformity to the locations and configurations shown on the design drawings.

Thrust blocks were installed on the gate valve and all horizontal or vertical bends to transfer pressure, momentum forces and dynamic hydraulic loads 'water hammer' to bearing surfaces of undisturbed soil. The thrust blocks were installed within reasonable conformity to the specifications and drawings of the *Contract Documents*. Generally, the installation procedures were as follows: Plastic was wrapped around the pipe and/or fittings to protect it from surface corrosion during concrete curing; bent rebar straps were fitted as required on vertical bends and each side of the gate valve body; a determination of the required surface area was made and plywood forms were fabricated to obtain the required surface area; and the concrete was poured into the form.

After satisfactory inspections and pressure test results were obtained, Wilder backfilled the trench and associated excavations. Generally, backfilling procedures were as follows: ¾-minus aggregate rock was placed on each sides of the DIP. Hand shovels were used to work the fill under the 'cheeks' of the pipe. Once sufficient fill material was placed, the material was tamped using the bucket of the excavator or backhoe. More material was then placed until a 6-inch minimum lift thickness was obtained over the pipe. Several passes were then made with a plate compactor. Tracer tape was placed over the pipe on top of the ¾-inch minus and the trench was backfilled completely to existing ground surface with previously excavated native soil.

Installation of the main supply line was completed on April 15th.

2.3.7.3 Quality Control

Prior to backfill placement, installed pipes and fittings were inspected and pressure tested in accordance with the *Contract Documents*. Prior to putting the main into service, it was flushed, cleaned, disinfected, and tested by the residual chlorine method per the *ODOT Standard Specifications* (ODOT 2002). Wilder was responsible for correct execution of all testing procedures, and E & E was responsible for performing inspections and reviewing the testing procedures and results for compliance.

2.4 Change Orders and Project Deviations

Project activities were modified in response to unexpected conditions, requests for additional work, and adjustments to the site work directed by DEQ and E & E. One change was issued during the project. The following list contains brief description of the contents of that change order:

- Change Order 1:
 - Deleted the requirements for asphalt paving and fence installation.
 These were added to the Upland Cap contract. This was done for administrative reasons.



- Added a new sanitary waste holding tank (the existing one was not suitable for burial beneath asphalt).
- As a cost saving measure, the Contractor proposed rerouting electric lines and using EMT and PVC conduit instead of rigid galvanized steel conduit. Additionally, the Contractor proposed using primer-coated steel garage doors instead of the corrosionresisting steel doors that were specified. These proposals were accepted.
- It was determined that air terminals (lightning rods) were not needed on the new shop building because of the proximity of the new luminaire, which functions as a lightning rod. The air terminals were deleted from the scope of work.
- The thickness of the concrete luminaire pad was increased to accept the length of anchor bolt required for the luminaire. The quantity of concrete (unit price item) was increased.

A copy of the change order is included in Appendix C. Cost effects are presented in Section 3 of the Upland Cap CSR.

In addition to change orders, other minor changes in sequencing, site layout, or construction procedures that weren't in conflict with the intent of the project plans and specifications were performed. These changes were authorized through work directives issued by E & E oversight personnel. These directives along with clarifications and other significant communications were issued and documented by E & E through formal correspondence letters (numbered "EE-WC-#"). Copies of these letters are included in Appendix C. Please note that EE-WC-05 was not issued.

2.5 Health and Safety

E & E site personnel in conjunction with the construction contractor's personnel were responsible for providing guidance and inspections to ensure proper health and safety procedures were followed at the site during construction activities. All contractors and consultants performing work on the site developed and implemented their own site safety plans in accordance with the provisions of the Occupational Safety and Health Administration (OSHA) Standards (29 CFR 1910) and General Construction Standards (29 CFR 1926), including OSHA Hazardous Waste Operations and Emergency Response, Interim Final Rule (29 CFR 1910.120). Compliance with all other applicable federal, state, and local laws and regulations was also required.

A formal safety meeting was held at the beginning of the project to review safety procedures with all site personnel and inform workers of potential hazards. Daily safety meetings to discuss physical and chemical hazards associated with the day's activities were conducted each morning before work began. Site safety briefings were also conducted for all new personnel reporting to the site and for all visitors to the site.





Protective clothing, such as a hard hat, steel-toed boots, safety vests, and safety glasses, was required for entry into the site's work zones. The primary physical hazards at the site included heavy equipment operation; trench excavation; noise; slips; trips; and falls. The major health and safety concern related to contamination on-site was dermal contact and/or ingestion of the contaminated matter and inhalation of vapors and/or contaminated particulates (i.e., dust). During dry conditions, Wilder controlled dust by water application with a water truck to help prevent on-site personnel and the public from being exposed to airborne contamination.

2.6 Community Relations

For discussions related to community relations, refer to the Upland Cap CSR.

2.7 Documentation

2.7.1 Oversight Documentation

E & E oversight engineers completed construction reports on a daily basis. Copies of the *Daily Field Reports* are included as Appendix D. Items recorded on each report included weather conditions; on-site personnel; site visitors; major equipment used; materials delivered to the site; non-conformances noted; and safety concerns noted. Note, due to project delays from weather, material delivery problems and compaction problems associated with the select fill, 19 daily reports document that no work was performed by the Wilder or their subcontractors on the Support Facility Modifications contract that day. In an effort to save resources and minimize the size of this document, these "no work" reports are not included in the Appendix.

E & E engineers also maintained field activity logbooks which included detailed documentation of materials or equipment delivered; records of inspections performed; work progress; planned activities; a photo-documentation log; reports of minor field changes; and field problems. A digital camera was used for photo-documentation. Select photos are included in Appendix E.

2.7.2 Employee and Visitor Log

An Employee and Visitor Log was maintained by E & E for the duration of the project. All personnel working at or visiting the site were required to sign the log and provide information including date, name, address, affiliation, purpose for visit, time in, and time out.

2.7.3 Weekly Progress Meetings

Each week, E & E and Wilder held a weekly progress meeting to discuss project issues including, but not limited to, schedule, installation progress, submittals, problems encountered, and health and safety. Attendees included E & E's project manager, project engineer, and oversight engineer; and Wilder's project manager and Superintendent. Following each meeting, meeting minutes were developed.



After each meeting, E & E also prepared a Summary of Action Items, which identified tasks to be completed by each party, as discussed in the progress meeting.

2.7.4 Record Drawings

At the completion of the RA, a DEA survey crew performed surveying to document the as-built locations and elevations of the newly constructed and modified site features. From the survey data, DEA developed record drawings showing the as-built plan and profile locations of the site features. The record drawings are included in an appendix to the *Construction Summary for the Upland Cap* (E & E 2006).

2.8 Demobilization

Following construction completion, Wilder performed the following restoration and demobilization activities:

- Decontaminated and demobilized construction equipment;
- Demobilized field office and other temporary facilities; and
- Cleared site of waste materials, rubbish, and debris (disposed offsite).

2.9 Chronology of Major Events

Following is a list of major events that occurred during the RA:

- 3/23/05 Contract signed with Wilder.
- 3/29/05 construction activities commence with the trenching for the modifications to the main waterline supply to the support area and removal of the backflow prevention device.
- 4/5/05 The office and decontamination trailers are moved to their temporary location.
- 4/07/05 The backflow prevention device installation is complete, the auxiliary control valve is installed, and the construction of the foundation footings and post piers for the shop building commences.
- 4/08/05 The thrust blocks for the fire hydrant and auxiliary valve are installed and the support pad is poured for the backflow prevention device.
- 4/11/05 Select fill placement begins.
- 4/14/05 The footings and post piers for the shop building are completed.



- 4/15/05 Installation of the reconfigured main water supply line is completed.
- 4/27/05 Installation of the shop building floor slab begins.
- 5/02/05 Construction of the concrete mounting base and ballast for luminaries' pole and the excavation for the new wheel wash and hazardous materials storage area begins.
- 5/03/05 The installation of the shop building floor slab is completed and excavation for the hazardous materials storage area begins.
- 5/4/05 Construction of the hazardous material storage area form and batter boards begins
- 5/9/05 Construction completion of the hazardous materials storage area.
- 5/11/05 Construction of the wheel wash begins.
- 5/13/05 Completion of the wheel wash.
- 6/21/05 The erection of the shop building starts.
- 6/28/05 Installation of the protective bollards begins.
- 7/14/05 Installation of the bollards is complete.
- 7/22/05 The building erection is finished.
- 7/27/05 The construction is substantially complete.

3

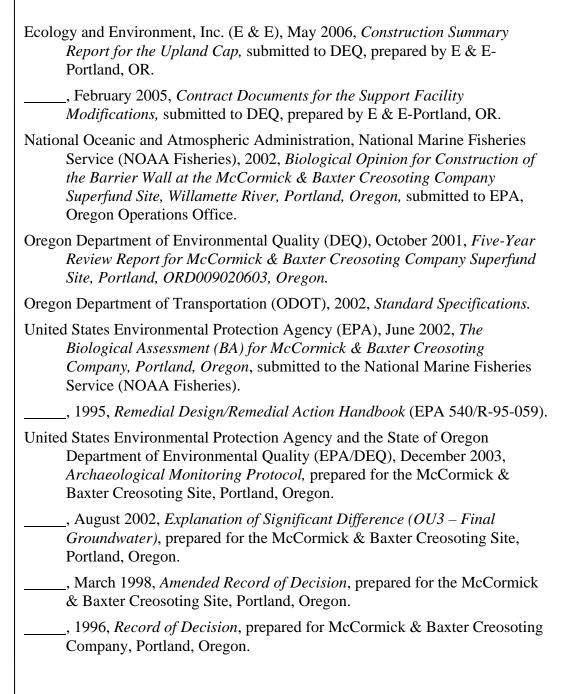
Project Quantities and Costs

A detailed summary of the RA construction quantities and costs is presented in the *Construction Summary for the Upland Cap* (E & E 2006).

002688.0Y21.29.03 3-1

4

References



002688.0Y21.29.03 4-1



A Select Submittals

A-1 002688.OY21.29.03



BUTLER MANUFACTURING COMPANY

7440 Doe Avenue Visalia, California 93291 Phone: (559) 651-5312 Fax: (559) 651-5395

www.butlermfg.com

CUSTOMER: McCormick & Baxter-LOCATION: Portland, Oregon

BUILDER: SM Andersen Company, Inc.

BUILDING SIZE UNIT 1: 25' 0" x 40' 0" x 10'

BMC ORDER NO.: 127470

BUILDER ORDER NO: 1801_PO10688

DESIGNER: Bita Eftekhar DATE: 04/01/05

TABLE OF CONTENTS

UNIT 1 **DESIGN CRITERIA:** D1 SPECIFICATIONS: 1 **ROOF SECONDARIES:** 5 WALL SECONDARIES: 15 **ENDWALL STRUCTURALS:** 19 23 LONGITUDINAL BRACING: 25 WALL PANEL: **ROOF PANEL:** 26 FRAME DESIGN: F1 FRAME CONNECTIONS: **S1**

4.1.05

ORDER # 127470 BUILDER - S M ANDERSEN CO., INC.	BLDR ORDER # 1801_P010 BLDR ACCOUNT # 20-36-051-07
BLDR CONTACT - RICK BROCKWAY BLDR PHONE # 503-860-7963	PROJ NAME - MCCORMĪCK AND BAXTER ENGR GRP - Visalia
COMPLEX - NO (TYPE) (WIDTH) (LENGTH)	(HEIGHT) (SNOW) (WIND) (CODE/YEAR) (SLOPE)
UNIT # 1 BLDG DESCRIPTION LRF 25' 0" 0/32 X 40' 0"	0/32 X 10' 2" 20/32 25 PSF 100 MPH IBC 03 2.000:12
(COLUMN SHAPE) (COLUMN KNEE)	(COLUMN OFFSET) (GIRT DEPTH)
LSW: TAPERED RSW: TAPERED LSW: HORIZONTAL RSW: HORIZONTAL	LSW: 1 1/4" RSW: 1 1/4" LSW: 9 1/2" RSW: 9 1/2"

1. DESIGN SPECIFICATIONS

- 1.1 All structural mill sections or welded-up plate sections are designed in accordance with the 1989 edition of the AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- 1.2 All cold-formed structural members are designed in accordance with the 2001 edition of the AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
- 1.3 All welding shall be done in accordance with the AMERICAN WELDING SOCIETY CODE FOR BUILDING CONSTRUCTION.
- 2. MATERIAL SPECIFICATIONS (Minimum Fy and Fu in ksi) Built-up Sections matl <=1" thick and <=12" wide .. Fy = 55. Built-up Sections matl >1" thick or >12" wide .. Fy = 50. Wide flange Sections (unless noted) Fy = 36. Cold-formed Members up to .120 thickness Fy = 60. over .120 thickness Fy = 55. Galvanized Material Fy = 42. Brace Rods up to 3/4" diameter $\hat{Fu} = 80$. over 3/4" diameter Fu = 70. Roof Cover VSR 00 Gage Wall Cover STYLFU 24 Gage

3. SPECIFIED DESIGN LOADS AND BUILDING CODE

- 3.1 BUILDING CODE:
 - The 2003 edition of the "International Building Code" by the International Code Council. Inc.
- 3.2 DESIGN LOADS Terrain Cat/Wind Exp Dead Load 2.7 + Frame Weight Ground Snow Load 25 psf Rain Snow Load 0.00 psf Roof Snow Load 20.00 psf Partial Exposed Rf Exposure of Roof Thermal Condition Normal Collateral Load 5.00 psf Wind Speed 100 Seismic: Ss - 100% S1 -Snow Importance Factor 1.000 Wind Importance Factor 1.000 Seismic Importance Factor 1.000 Min County Ground Snow 10 psf Building Use Category GENERAL USE



S. M. ANDERSELLCO

DATE:	03/31/	05
TIME.	12.01	PM

DESIGN CRITERIA REPORT

PD1200DDC

ORDER # 127470 BUILDER - 8	M ANDERSEN CO., INC.	BLDR ORDER # 1801_PO10	BLDR ACCOUNT # 20-36-051-07
BLDR CONTACT - RICK BROCKWAY	BLDR PHONE # 503-860-7963	PROJ NAME - MCCORMICK ANI	D BAXTER ENGR GRP - Visalia
COMPLEX - NO (TYPE	(LENGTH)	(HEIGHT) (SNOT	(SLOPE) (WIND) (CODE/YEAR)
UNIT # 1 BLDG DESCRIPTION LRF (COLUMN SHAPE)	25' 0" 0/32 X 40! 0" (COLUMN KNEE)	0/32 X 10' 2" 20/32 25 1 (COLUMN OFFSET)	PSF 100 MPH IBC 03 2.000:12 (GIRT DEPTH)
LSW: TAPERED RSW: TAPERED	LSW: HORIZONTAL RSW: HORIZONTAL	LSW: 1 1/4" RSW: 1 1/4"	LSW: 9 1/2" RSW: 9 1/2"
		·	

A CHANGE A	DEGLOS	TONTO	
ACTUAL	DESIGN	TOADS	

LIVE LOAD

INTERMEDIATE FRAME 25.0 psf FRAMES: 1 ENDWALL STRUCTURALS 25.0 psf FEW

25.0 psf REW

5.00 psf REW

ROOF STRUCTURALS
26.3 psf BAYS: 1, 2

COLLATERAL LOAD

INTERMEDIATE FRAME 5.00 psf FRAMES: 1

ENDWALL STRUCTURALS 5.00 psf FEW

ROOF STRUCTURALS 5.00 psf BAYS: 1, 2

WIND SPEED

INTERMEDIATE FRAME 100.00 mph FRAMES: 1

ENDWALL SIDEWALL STRUCTURALS

100.00 mph FEW 100.00 mph RSW 100.00 mph REW 100.00 mph LSW

BRACING 100 mph ROOF STRUCTURALS
100.00 mph BAYS: 1, 2

WIND COEFFICIENT (* INDICATES OVERRIDE)

PRESSURE
All girts 0.950
Bracing 0.400

SUCTION -1.050 -0.290

Roof Structurals

-0.980

DATE: 03/31/05 TIME: 12:01 PM

DESIGN DATA REPORT 0-00-01 GLOBAL DATA

LRF DESIGN SPECIFICATIONS

PD1200DSN PAGE 1

BLDR ACCOUNT # 20-36-051-07 ORDER # 127470 BLDR ORDER # 1801 PO10 BUILDER - S M ANDERSEN CO., INC. BLDR PHONE # 503-860-7963 PROJ NAME - MCCORMĪCK AND BAXTER ENGR GRP - Visalia BLDR CONTACT - RICK BROCKWAY (LENGTH) (HEIGHT) $(\overline{S}NOW)$ (WIND) (WIDTH) (CODE/YEAR) (SLOPE) COMPLEX - NO (TYPE) UNIT # 1 BLDG DESCRIPTION LRF 25' 0" 0/32 X 40' 0" 0/32 X 10' 2" 20/32 25 PSF 100 MPH IBC 03

1 DESCRIPTION

1.1 GENERAL

The primary structural system consists of rigid frames designed as clear span or with interior columns as a modular rigid frame. The end frames consist of H-Section beams and H or C Section posts arranged as described below. Purlins and eave struts spanning between the frames support the roof panels. The wall panels span from the base to the eave and may be supported at the intermediate points by girts spanning between the frames.

1.2 RIGID FRAMES

The rigid frames consist of tapered or straight welded-up plate section exterior columns and roof beams with bolted splices. For modular frames, interior columns are straight sections. The minimum yield of the steel used for flanges and webs is 55 ksi.

1.3 END FRAMES

Endwall framing has two options:

- (1) H-Section roof beams and Light gage "C" Section posts or H-Section posts designed as a pinned frame. Lateral support is provided by cross bracing in the plane of the endwall or in the roof. Endwall roof beams and H-Section posts are welded members using 55 ksi steel for flanges and webs. "C" Section posts may be single or double 12" members fabricated from 60 ksi minimum vield material.
- (2) H-Section roof beams and posts designed as a modular rigid frame. Lateral support is provided by frame action and bracing in the plane of the endwall where required. The minimum yield of the steel used for flanges and webs is 55 ksi.

1.4 SECONDARY FRAMING

The secondary framing consists of purlins, girts, and eave struts cold-formed from 60 ksi minimum yield material. Purlins and girts are Z-shaped members and eave struts are C-shaped.

DESIGN SPECIFICATIONS

All structural mill sections or welded-up plate sections are designed in accordance with the AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

All cold-formed structural members are designed in accordance with the AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

0-00-01 GLOBAL DATA LRF DESIGN SPECIFICATIONS

PD1200DSN PAGE 2

ORDER # 127470 BUILDER - S M ANDERSEN CO., INC. BLDR ORDER # 1801 PO10 BLDR ACCOUNT # 20-36-051-07 3LDR CONTACT - RICK BROCKWAY

BLDR PHONE # 503-860-7963

PROJ NAME - MCCORMICK AND BAXTER ENGR GRP - Visalia

COMPLEX - NO

(TYPE) (WIDTH) (LENGTH) (HEIGHT) (SNOW) (WIND) (CODE/YEAR) (SLOPE) NIT # 1 BLDG DESCRIPTION LRF 25' 0" 0/32 X 40' 0" 0/32 X 10' 2" 20/32 25 PSF 100 MPH

3 METHOD OF ANALYSIS

3.1 RIGID FRAMES

The rigid frame is designed using the stiffness analysis method. The frame is designed with pinned connections at the column bases. Modular frames with interior columns are designed with pinned connections at the column top. The indeterminate reaction analysis for this frame uses the energy method considering bending only. To account for the changing sections of the frame, summations are obtained by dividing the frame into a number of individual sections and adding the frame coefficients of these sections.

3.2 ENDWALL FRAMING

Endwall framing has two options. Option 1 is a Pinned Endwall consisting of H-Section roofbeams designed as simple or continuous supported by endwall posts designed as pinned end members. Option 2 is a Rigid Endwall consisting of H-Section roof beams and posts designed as modular rigid frames with or without endwall bracing.

3.2.1 Pinned Endwall Option

3.2.1.1 Endwall Posts

Endwall posts will be designed as pinned end members (simple span) to resist the moment and shear caused by wind load from the tributary wall area and the axial load caused by the vertical forces (dead load, live load, uplift) from the tributary roof area. All roof and wall loads will be considered uniformly distributed. Endwall posts will be assumed to be loaded through the shear center. The posts will be considered adequately braced against torsionalflexuraly buckling by the panels and girts. Girt locations will be considered inner and outer flange brace points. Moments and forces will be determined in accordance with the above specifications and procedures.

3.2.1.2 Endwall Roof Beams

Endwall roof beams will be designed as simple span or continuous members depending on post arrangement. Eave connections will be considered to provide pinned end support as will the ridge connection when a post is situated under the ridge. The roof beams will be designed to resist the shear and moment caused by the dead load, live load, and wind uplift applied to the tributary roof area. The endwall panel weight (1.1 psf x eave height) will be deducted from the applied uplift load. Purlins will brace the top flange and flange braces will brace the bottom flange of roof beams. Allowable moment capacity will be computed in accordance with the AISI Specification. Moments and forces will be determined in accordance with the above specifications and procedures.

3.2.2 Rigid Endwall Option

The rigid frame endwall consists of straight welded-up plate section corner columns, endwall posts, and roof beams with bolted splices. The minimum yield of the steel used for flanges and webs is 55 ksi. Endwall posts are designed as pinned end members (simple span) to resist the moment and shear caused by the wind load on the endwall and axial load caused by the vertical forces from the roof. Some frames will also be designed with rod bracing attached at the base and top of the endwall post to act in conjunction with the rigid frame action of the frame to resist the force caused by the wind load on the sidewalls.

DATE: 03/31/05 TIME: 12:01 PM DESIGN DATA REPORT

0-00-01 GLOBAL DATA LRF DESIGN SPECIFICATIONS

PD1200DSN PAGE 3

ORDER # 127470 BUILDER - S M ANDERSEN CO., INC.
BLDR CONTACT - RICK BROCKWAY BLDR PHONE # 503-860-7963
COMPLEX - NO (TYPE) (WIDTH) (LENGTH)

BLDR ORDER # 1801 PO10 BLDR ACCOUNT # 20-36-051-07
PROJ NAME - MCCORMĪCK AND BAXTER ENGR GRP - Visalia
(HEIGHT) (SNOW) (WIND) (CODE/YEAR) (SLOPE)

UNIT # 1 BLDG DESCRIPTION LRF 25' 0" 0/32 X 40' 0" 0/32 X 10' 2" 20/32 25 PSF 100 MPH IBC 03 2.000:12

3.3 SECONDARY FRAMING

3.3.1 Purlins, Eave Struts, And Girts

Purlins and girts may be designed as simple span or continuous beams. Eave struts are designed as simple span beams. All members are designed using the stiffness analysis method. The purlins and eave struts are designed for the shear and moment caused by live load or uplift on the tributary roof area and the axial load caused by wind on the tributary endwall area. The girts are designed for the shear and moment caused by wind pressure or suction applied to the tributary wall area. All loads are assumed uniformly distributed, but tapered and concentrated loads can be input and considered in the design. The section is optimized for either allowable forces, moments, or live load deflection in accordance with the above listed specifications and procedures.

3.3.2 Roof Panels

Panels will be designed as continuous span members. All live or snow loads and wind pressure or suction are assumed uniformly distributed.

3.3.3 Wall Panels

Panels will be designed as simple span (no girts) or continuous span (with girts) members. The panels will be designed assuming a uniformly distributed wind pressure or suction. Maximum panel spans will be developed in accordance with the above specifications and procedures.

3.4 WIND BRACING

The standard wind bracing is provided by using brace rods. Alternate wall bracing can be provided by using portal frames, wind posts, or panel diaphragms.

Brace rods will be designed as tension members in accordance with the applicable provisions of AISC. Rods 0.75 inch in diameter and less will have a minimum 80 ksi ultimate tensile strength. Rods larger than 0.75 inch in diameter will have a minimum 70 ksi ultimate tensile strength.

Bracing design based on panel diaphragm action will require a lineal footage of full height panels determined by eave height and wind loading.

DATE: 03/31/05 DESIGN DATA REPORT PD1200DSN
TIME: 12:01 PM 0-00-01 GLOBAL DATA LRF DESIGN SPECIFICATIONS PAGE 4

ORDER # 127470 BUILDER - S M ANDERSEN CO., INC. BLDR ORDER # 1801 PO10 BLDR ACCOUNT # 20-36-051-07
BLDR CONTACT - RICK BROCKWAY BLDR PHONE # 503-860-7963 PROJ NAME - MCCORMICK AND BAXTER ENGR GRP - Visalia
COMPLEX - NO (TYPE) (WIDTH) (LENGTH) (HEIGHT) (SNOW) (WIND) (CODE/YEAR) (SLOPE)
UNIT # 1 BLDG DESCRIPTION LRF 25' 0" 0/32 X 40' 0" 0/32 X 10' 2" 20/32 25 PSF 100 MPH IBC 03 2.000:12

3.4.1 Roof And Sidewall Bracing

The standard wind bracing to be provided in all buildings is a parallel chord Pratt truss in the roof and "X" diagonal rod members in the wall.

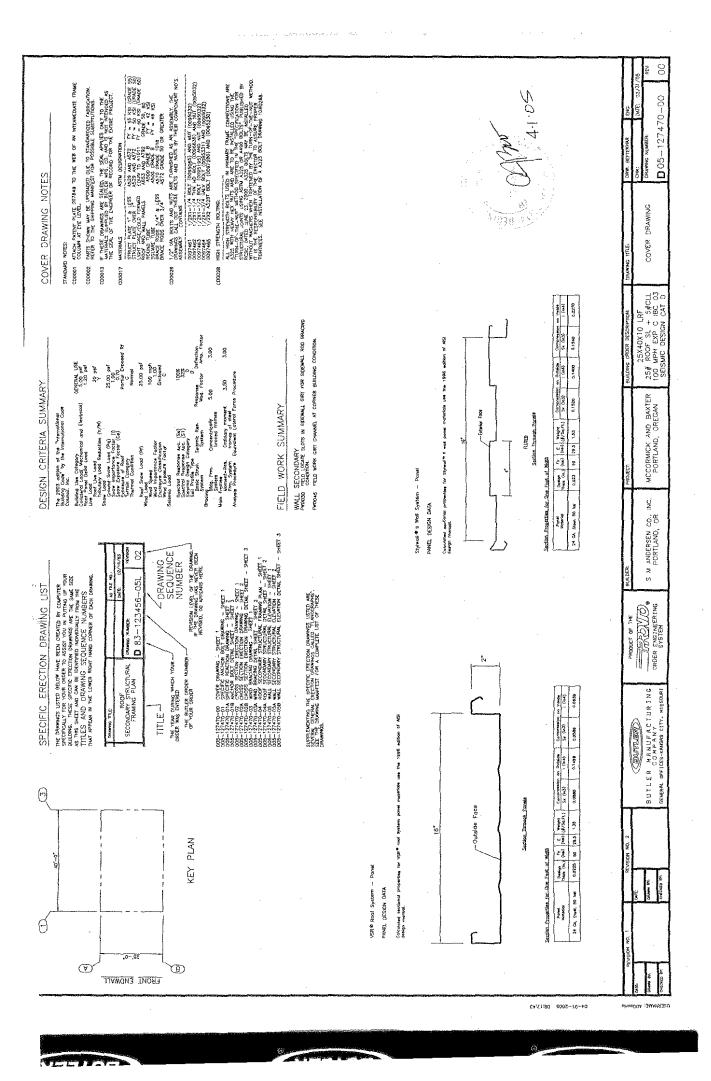
The rod loads are computed by summing the windward and leeward endwall post reactions which act between the ridge of the building and the strut whose load the brace rod is transferring down the roof. If more than one braced bay exists, it is assumed that the accumulated wind load is distributed equally to each braced bay. Hence the sum computed above is divided by the number of braced bays. The rod load is determined by dividing the strut load by the cosine of the angle between the strut and the brace rod.

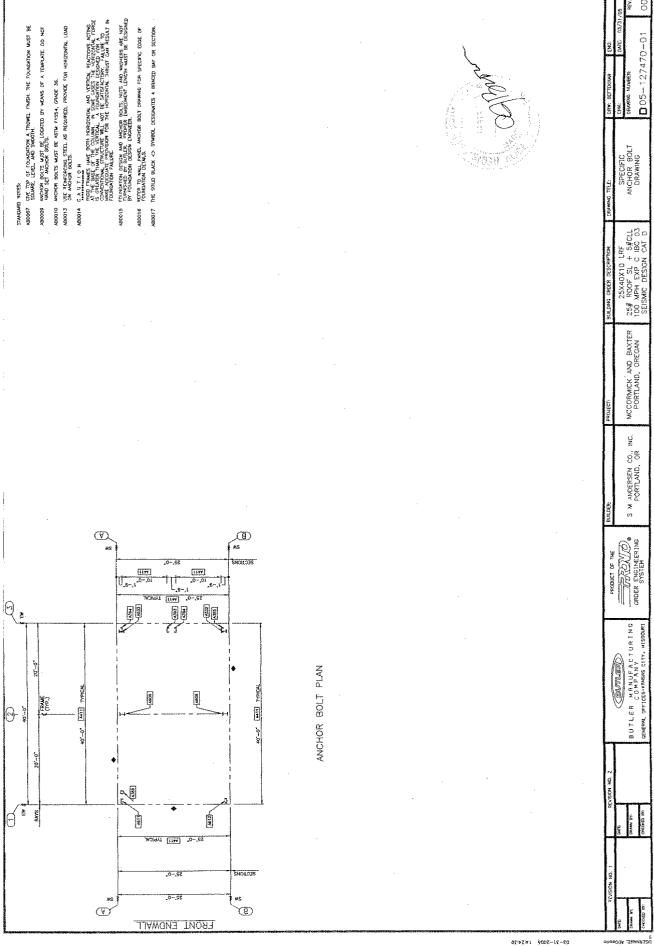
The braced bay sidewall reactions are the horizontal and vertical resolution of the load in the sidewall rods.

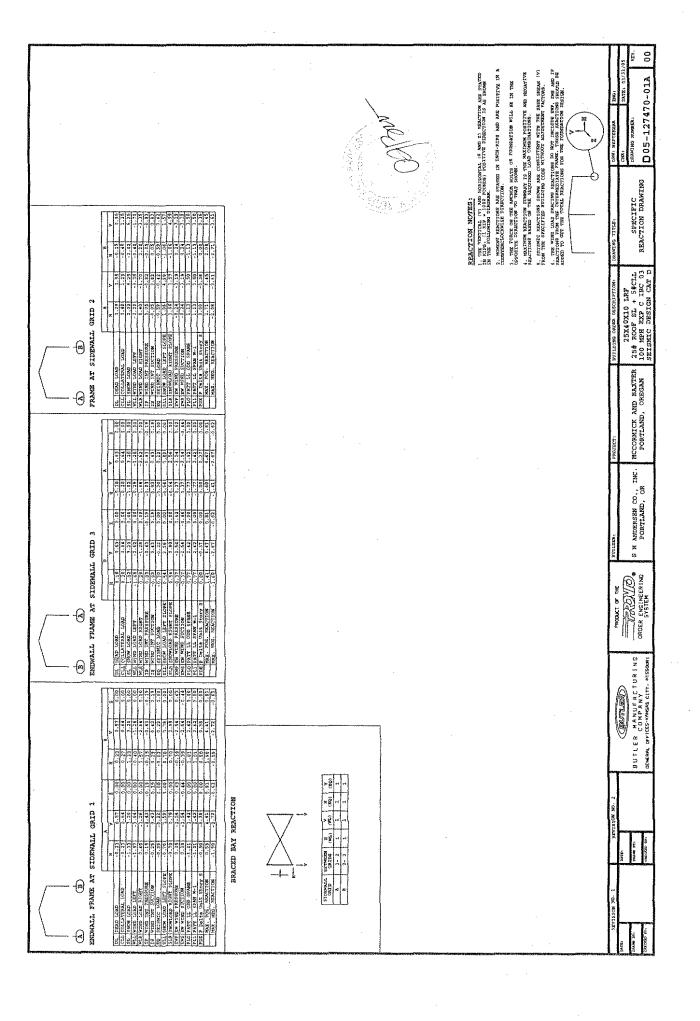
3.4.2 Endwall Bracing

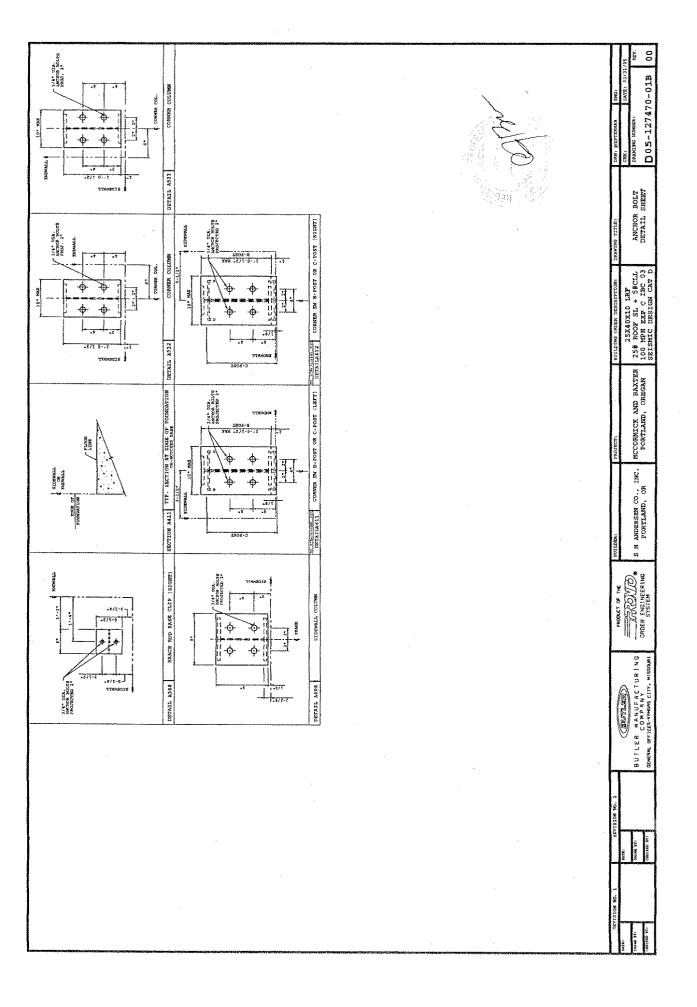
The endwall bracing for the Pinned Endwall will be designed as the lateral support system of the frame.

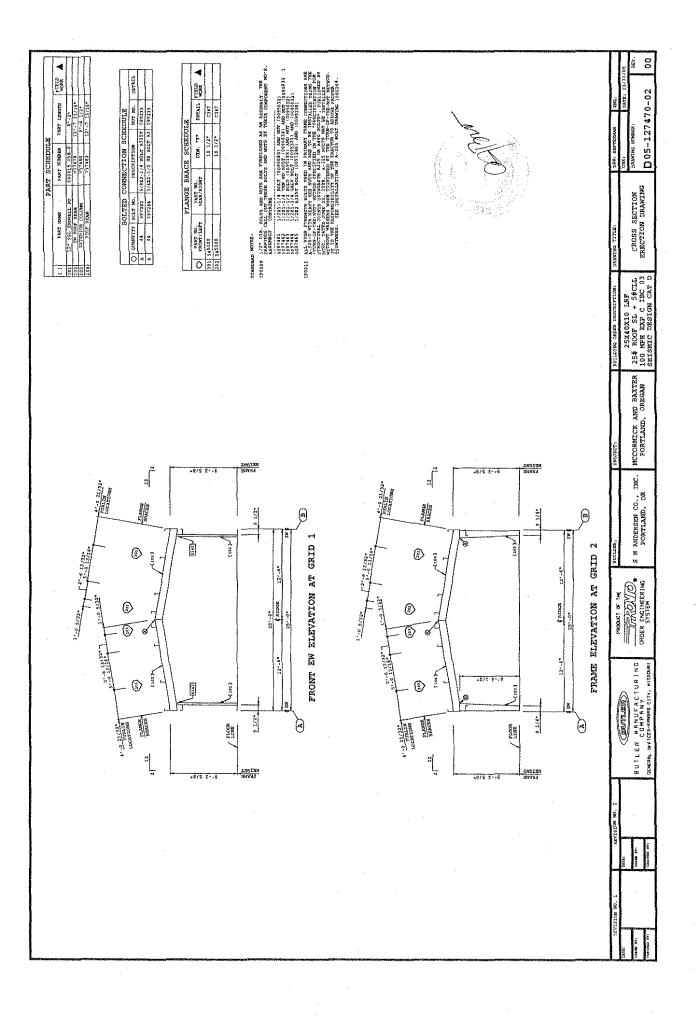
Endwall bracing for the Rigid Endwall will be designed to act in conjunction with the rigid frame action of the frame to resist the forces caused by the wind load on the sidewalls.

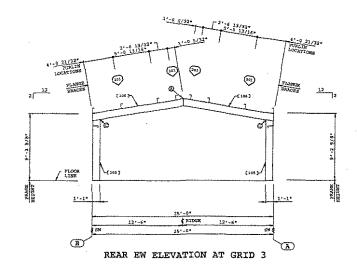












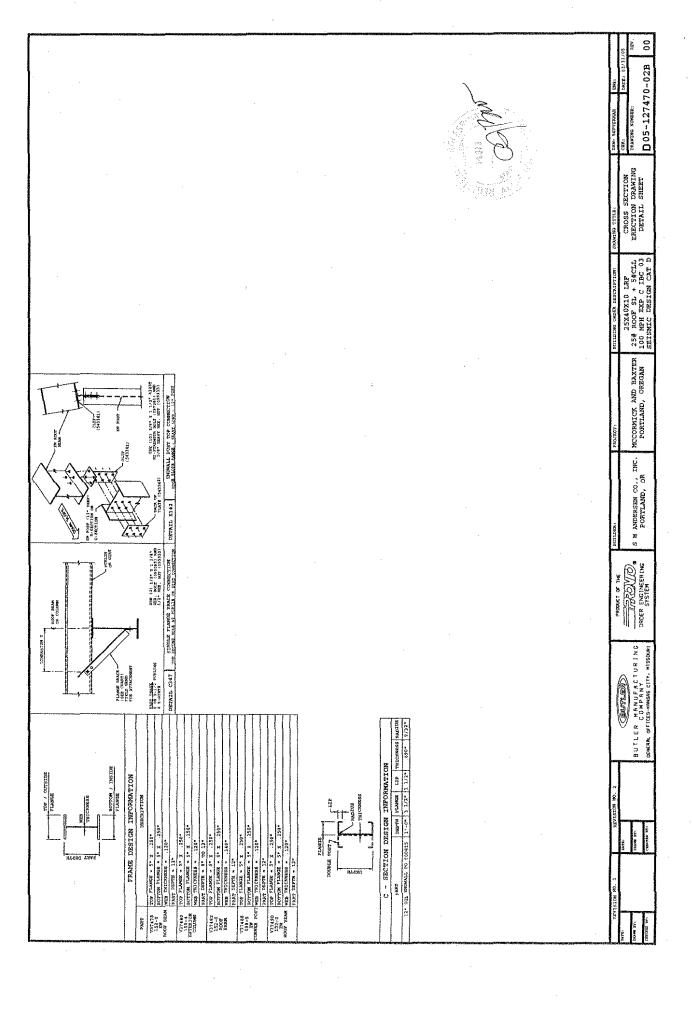
	P	ART SCHEDU	LE	
1.3	PART NAME	PART NUMBER	PART LENGTH	MOKK A
105	TW CORNER POST	V37468	8'-2 5/8"	1
106	EW ROOF SEAM	737490	12'-7 15/15"	

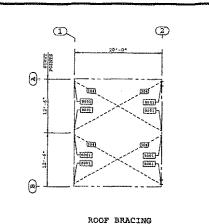
	BOLTED CONNECTION SCHEDULE											
0	QUARTITY	BOLT NO.	DESCRIPTION	mur no.	PRTAIL							
λ	04	297282	5/8X2-1/4 BOLT 1325T	195233								
c	09	697261	5/8X1-1/2 HS BOLT A3	095233								

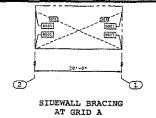
	FLANGE BRA	CE SCHEDUL	E	
PART NO.	PART NO. REAR/RIGHT	"די אנום	DETAIL	FIELD A
201 545100		10 1/2"	C347	



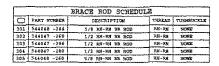
	REVISION NO. 1	REVISION NO. 2		PRODUCT OF THE	BUILDER:	PROJECT:	BUILDING ORDER DESCRIPTION:	DRANING TITLE:	DRW: DEFTENCIAR ENG:	
EA/THE1		DATK:	(EUTLER)	====50V/65)			25X40X10 LRF		CHR: DATE: 03/31	/05
DEANS	831	DAM FT:	BUTLER MANUFACTURING		S M ANDERSEN CO., INC.		25# ROOF SL + 5#CLL	CROSS SECTION	DRAWING NUMBER:	REV.
-	⇔ atr	CHECKED BY:	C O M P A N Y CENERAL DEFICES-KANSAS CITY, HISSOURI	ORDER ENGINEERING SYSTEM	PORTLAND, OR		100 MPH EXP C IBC 03 SEISMIC DESIGN CAT D		D05-127470-02A	00





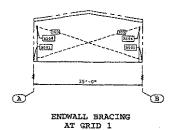


20'-0' [3]



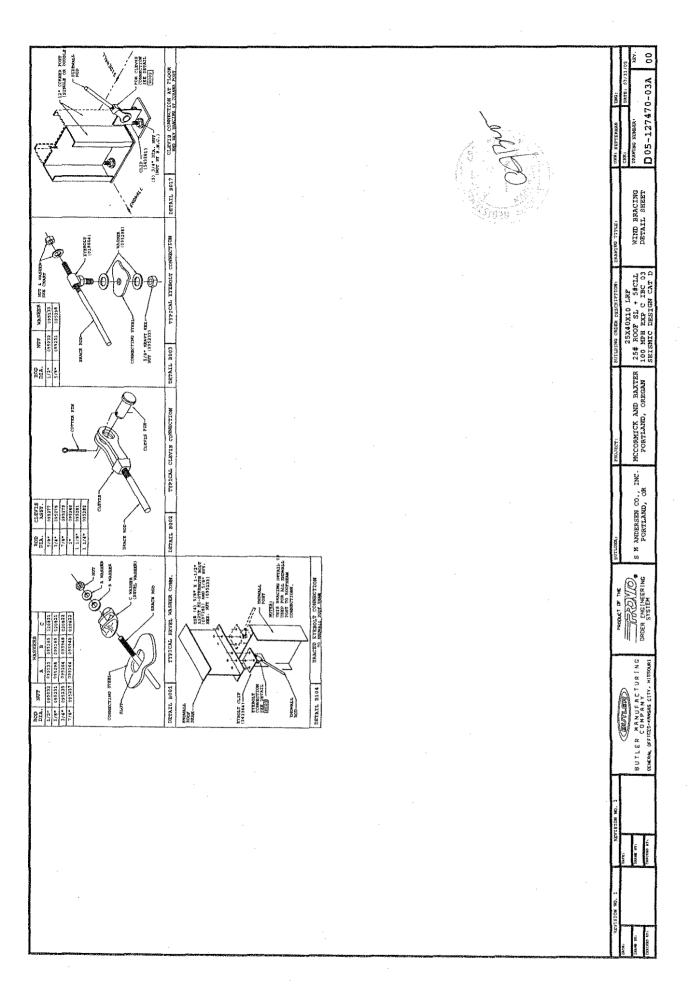
SIDEWALL BRACING AT GRID B STANDARD NOTEST

STANDARD MOREST MEGODS BLACK THREAD PROTECTIORS INDICATE 1/2" SHACE RODS RED THREAD PROTECTIONS INDICATE 5/8" SHACE RODS FROM THREAD PROTECTIONS INDICATE 1/4" SHACE RODS GREEN THREAD PROTECTIONS INDICATE 1/4" SHACE RODS WHITE THREAD PROTECTIONS INDICATE 1/4" SHACE RODS WHITE THREAD PROTECTIONS INDICATE 1/4" SHACE RODS

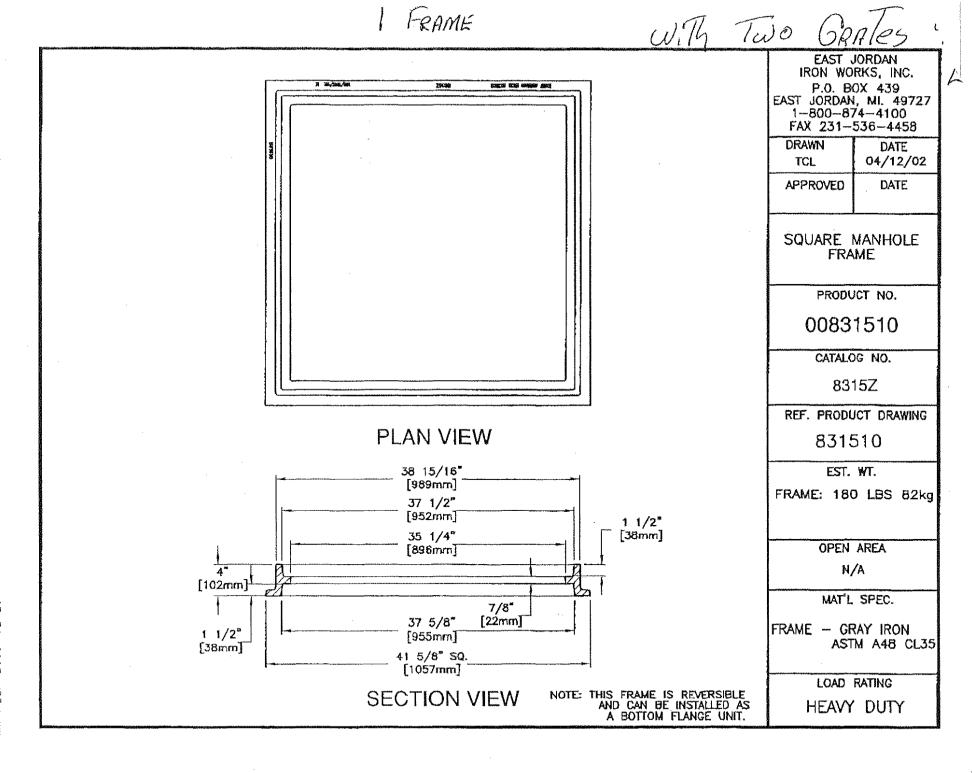




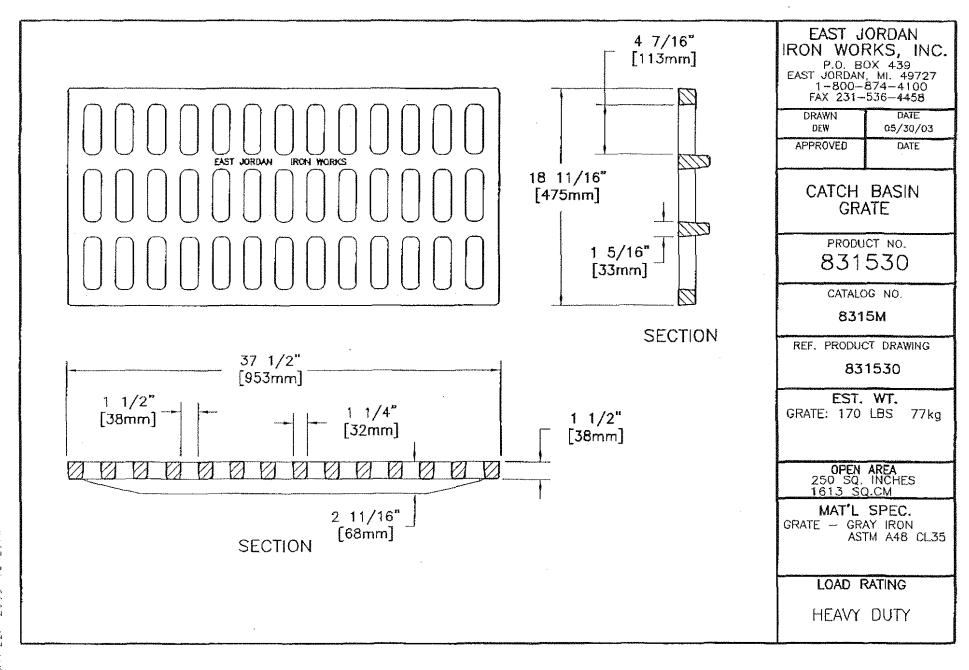
RE	VISION NO. 1	REVISION NO. 2		PRODUCT OF THE	DUILDER:	PROJECT:	BUILDING CROER DESCRIPTION:	DRAWING TITLE:	DRW: BEFTEXHAR	DKI:
DATE:		DEFAUNTAL:	SUTUER SUTLER MANUFACTURING		S M ANDERSEN CO., INC.		25X40X10 LRF 25# ROOF SL + 5#CLL		CHK: DRAWING SUMBER:	DATE: 03/31/05
Cpatching blis		CERCIPAD SYT	COMPANY GENERAL OFFICES-KANSAS CITY, MISSOURI	DRDER ENGINEERING SYSTEM	PORTLAND, OR		100 MPH EXP C IBC 03 SEISMIC DESIGN CAT D		□05~127470	-03 00



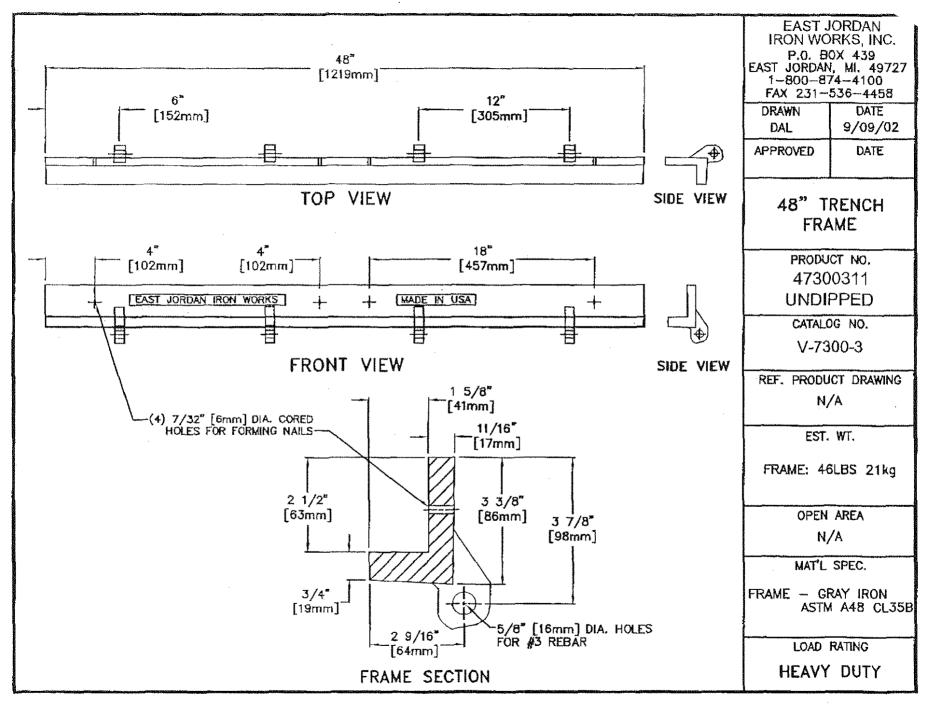
Т	RANSMITTAL OF SHOP DRAWINGS, EQU	IPMENT DATA, MATERIAL	SAMPLES, OR	DATE			TRANSMITTAL	L NO.		
	MANUFACTURER'S CERTIF	CATES OF COMPLIANCE			3/30/2	005	2			
	(Read instructions on reverse s	de prior to initiating this form)								
	SECTION I - REQUE	ST FOR APPROVAL OF TI	HE FOLLOWING IT	EMS (This	section will	be initiated	by the contractor)			
TO:		FROM:		CONTR	ACT NO.		CHECK ONE:			
	Ecology & Environment	Wilder Construction (Company				X THIS IS A NEW TRANSMITTAL			
	2101 Fourth Ave. Ste.1900	6645 NE 78th Ct. SteC	C-10	М	ac& Baxte	r Support	L			
	Seattle,WA.	Portland, OR. 97218				• •	THIS IS A RESUBMITTAL OF			
	Attn: Alexander Whitman	(503)255-1444					TRANSMITTAL			
SPE	CIFICATION SEC. NO. (Cover only one section	PROJECT TITLE AND LOC	ATION	<u> </u>	······································		CHECK ONE: TH	S TRANSMITT	AL IS	
		McCOrmick & Baxter Support Facility Modificat					FOR FIO	J1		
ITEM	DESCRIPTION OF ITEM SU		MFG OR CONTR.	NO.	1	REFERENCE	l .	VARIATION	FOR	
NO.	(Type size, model numbers	s / etc.)	CAT., CURVE	OF COTUTE	DOCL	JMENT	CONTRACTOR	(See	CE	
			DRAWING OR BROCHURE NO.	COPIES	SPEC.	DRAWING	USE CODE	instructions No.6)	USE . CODE	
			(See instruction no. 8)		PARA NO.	SHEET NO.		,		
а,	b,		C.	d.	e	ſ.	g.	h.	<u> </u>	
1	Sump Grate & Frame		Cat.	1						
2	Haz Waste Trench Grate/Frame		Cat.	1						
3	Wheel Wash Grate/Frame		Cat.	1						
		· · · · · · · · · · · · · · · · · · ·								
					 					
REM/	ARKS				1		itted items have been revie			
	•				i .		in strict conformance with			
					CORRECT GRAV	vings and speci	fications except as other w	se stated		
		•			İ			n. W	1 1	
					14.116	harl	frey (M/s	3/30/06	
					- #\ \\	NAME A	ND SIGNATURE O	F CONTRACTO	OR	
	Mining the system of the syste	SECTION II	- APPROVAL ACT	ION						
ENCL	OSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE					DATE			
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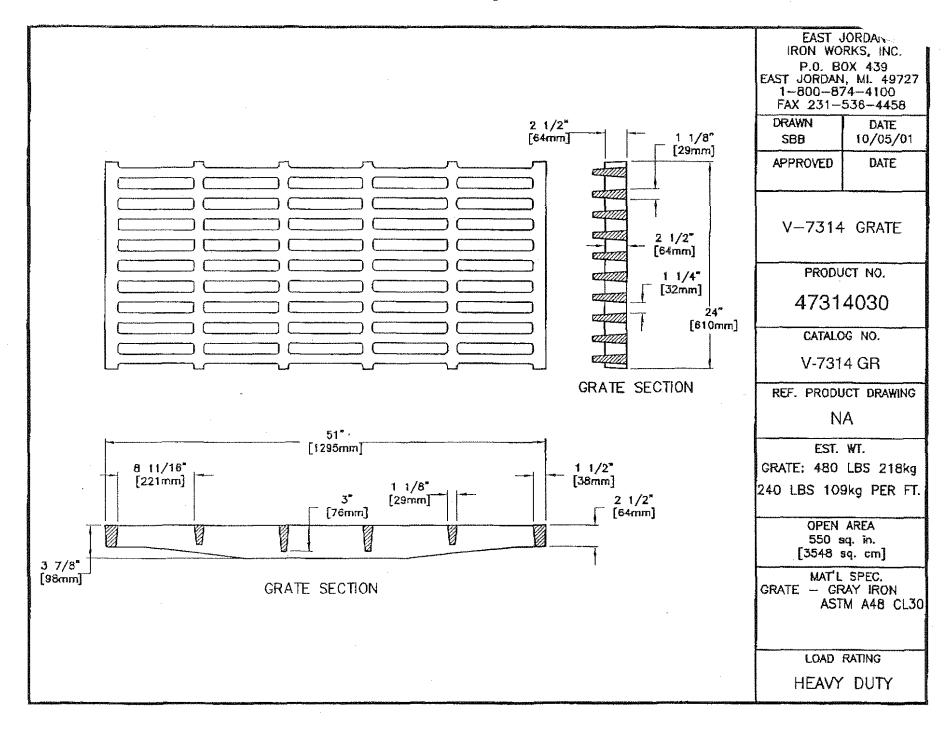


2 GRATES FOR 354 SQ

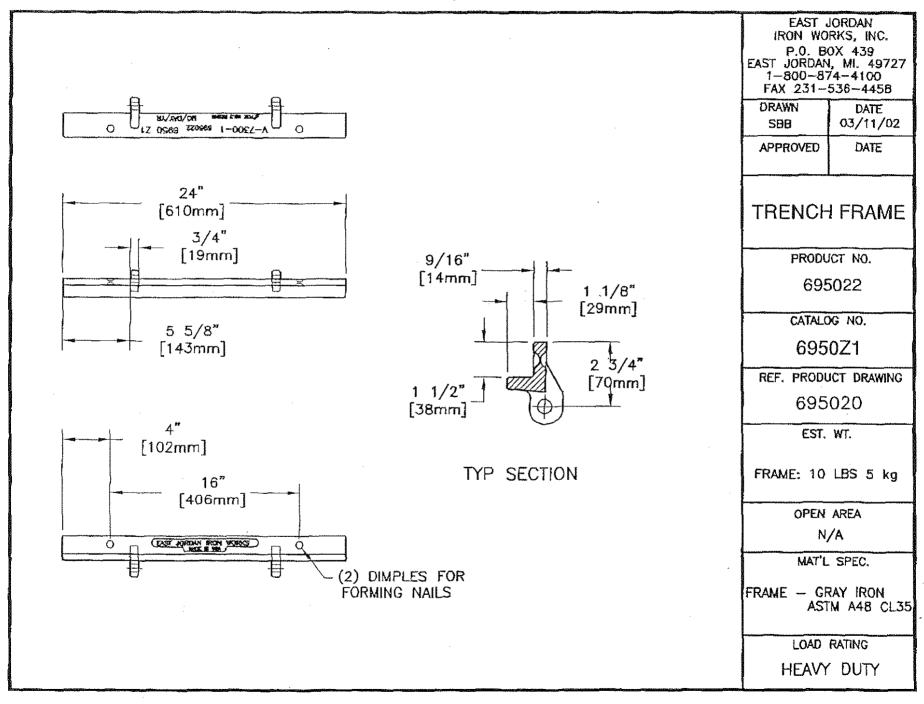


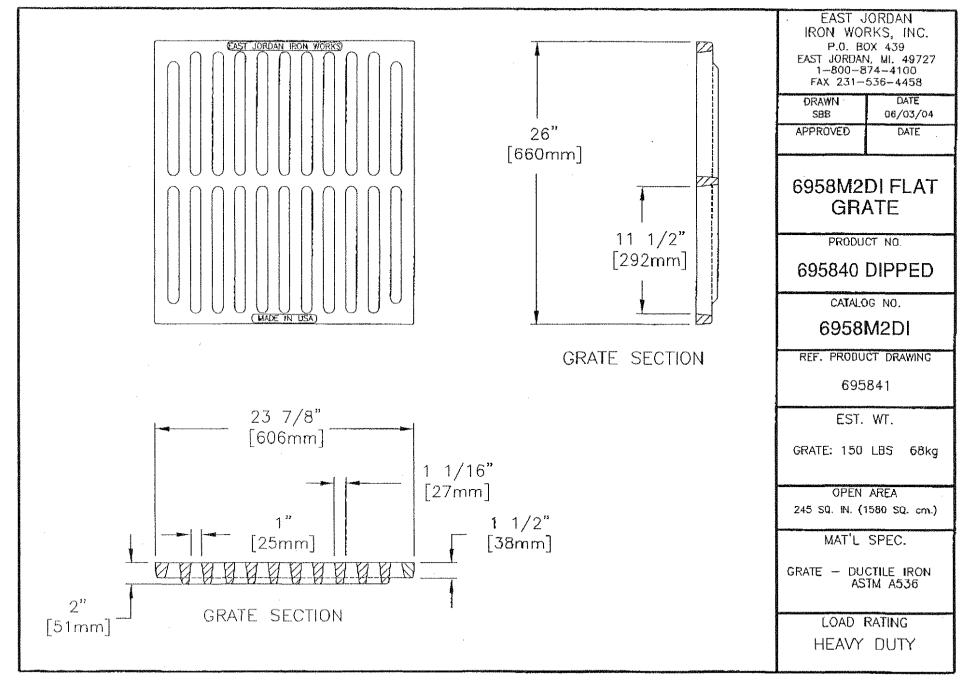
4 ITEMS





8 FRAMES





	TRANSMITTAL OF SHOP DRAWINGS, EQU	IPMENT DATA, MATERIAL	SAMPLES, OR	DATE			TRANSMITTAL	L NO.	1
	MANUFACTURER'S CERTIF	ICATES OF COMPLIANCE			3/29/200)5			
	(Read instructions on reverse s	de prior to initiating this form)							
	SECTION I - REQUE	ST FOR APPROVAL OF T	HE FOLLOWING IT	EMS (This	section will	be initiated t	by the contractor)		
TO:		FROM:			ACT NO.		CHECK ONE:		
	Ecology & Environment	Wilder Construction	Company				X THIS IS A NEW TRANSMITTAL		
	2101 Fourth Ave.	6645 NE 78th Ct. Ste	C-10	M:	ac& Bac S	upport	L		
	Seattle,WA.98121	Portland,OR.97218				, ,	THIS IS A RESUBMITTAL OF		
	Alexander Whitman	(503)255-1444					TRANSMITTAL		
SPE	CIFICATION SEC. NO. (Cover only one section	PROJECT TITLE AND LO	CATION	<u> </u>			CHECK ONE: TH	HS TRANSMITT	AL IS
	each transmittal) 2520	McCOrmick & Baxter Supp	ort Facility Modifica	tions			FOR FIC	X E&E ap	proval
ITEM	DESCRIPTION OF ITEM SU	SUBMITTED MFG OR CONTR. NO. CONTRACT REFERENCE				REFERENCE	FOR	VARIATION	FOR
NO.	(Type size, model number		CAT., CURVE	OF	DOCU	JMENT	CONTRACTOR	(See	CE
	Ductile Pipe,Fire Hydrar	t/Fittings	DRAWING OR	COPIES			USE CODE	instructions	USE
			BROCHURE NO. (See instruction no. 8)		SPEC. PARA NO.	DRAWING SHEET NO.		No.6)	CODE
a.	b.		c,	ď.	e.	f,	g.	ħ.	1.
1	Ductile Pipe/Fittings		Cat.	1	All				
2	Fire Hydrant/Associated Fittings		Cat	1	All				

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	ì								
REM	ARKS				· .		itted items have been rev		
							in strict conformance with		
					contract dray	ings and specif	fications except as other v	vise stated	
						٥		<i>y</i>	
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						NAME A	ND SIGNATURE C	CONTRACTO	R
		SECTION I	I - APPROVAL ACT	ION .					
ENC	OSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATUR	E OF APROVAING AUT	HORITY			DATE	46.000,000,000	
and the second							<u> </u>		

TID FORMIST COMPANY - VV VV 000 10.4DVV - CHOSH DOZOTO - - 1, /

PIPE U.D.

TYTON JOINT Pipe

TYTON JOINT® is U.S. Pipe's trademark for pipe with a push-on type connection. Simplicity, sturdiness and water-tightness of the system were brought about, not by chance but by design. Taking advantage of a background of 100 years experience with pipe and pipe connecting systems, U.S. Pipe made a thorough study of existing joining systems and requirements of pipe users. The results of this study showed the need for a simple, economical and reliable method of assembling pipe. With the objective of developing such a system, a number of new designs were devised. Several of the most promising were tested and the assembly which possessed the most outstandingly desirable characteristics became TYTON JOINT Pipe.

After selection of the system, TYTON JOINT Pipe were subjected to further rigid tests designed to simulate extreme installation and service conditions which might be encountered in the field. It was only after these tests proved completely satisfactory and were confirmed by field installations that the decision was made to market TYTON JOINT Pipe in 1955. Convincing proof of its wide acceptance is shown by the fact that more than 95% of the pipe now sold by this company is TYTON JOINT Pipe.

The TYTON® Gasket—a circular rubber gasket which has a modified bulb shape in cross section—is the only accessory. Composition and dimensions of the gasket have been carefully engineered to ensure a water-tight and lasting seal. Gaskets of special elastomers may be ordered for special applications.

The gasket contour and bell socket contour ensure that the gasket will remain seated during proper assembly of the pipe.

The plain end of the pipe is furnished beveled to ease assembly. Because TYTON JOINT Pipe assembles so easily, those not experienced with it may get the impression that the system is not water-tight. But years of successful experience prove it to be water-tight regardless of ease of assembly. Hydrostatic tests have shown that the system will withstand pressures far in excess of rated pressures.

Ductile Iron TYTON JOINT Pipe are centrifugally cast in metal molds in accordance with ANSI/AWWA C151/A2L51

TYTON Gaskets are furnished in accordance with ANSI/AWWA C111/A2111 "Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings."

Asphaltic outside coating and inside lining and coating are in accordance with ANSI/AWWA C151/A21.51 "Ductile-Iron Pipe, Centrifugally Cast for Water" for pipe and ANSI/AWWA C110/A21.10 "Ductile-Iron and Gray-Iron Fittings, 3 In. Through 48 In., For Water and Other Liquids." Cement lining, in accordance with ANSI/AWWA C104/A214 "Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water" or special linings and/or coatings can be furnished for specific conditions.

Sizes 4" through 42" are furnished in nominal 18-foot laying lengths. 48" through 64" are furnished in 20-foot laying lengths.

As specified in ANSI/AWWA C151/A21.51, pipe weights have been calculated using standard barrel weights and weights of bells being produced.

When joint restraint is required for push-on joint pipe, two options are available from U.S. Pipe. For joint restraint of 4" through 24", FIELD LOK® Gaskets may be used. FIELD LOK Gaskets are rated for 350 psi in sizes 4" through 12" and 250 psi in sizes 14" through 24". In addition, for 4" through 64" sizes, TR FLEX® Pipe and Fittings may be used. TR FLEX Pipe and Fittings are rated for working pressures of 350 psi in 4" through 24" sizes, 250 psi in sizes 36" through 48" and 150 psi in sizes 54" through 64". For higher pressure applications see your U.S. Pipe representative. Product brochures on both FIELD LOK Gaskets and TR FLEX Pipe and Fittings are available from your U.S. Pipe representative.

When TYTON JOINT Pipe are used for bridge crossings or other above ground installations, each length of pipe must be supported in a manner to restrict both vertical and horizontal movement.

Note.

If specifiers and users believe that corrosive soils will be encountered where our products are to be installed, please refer to ANSI/AW WA C105/A21.5 "Polyethylene Encasement for Ductile fron Pipe Systems", for proper external protection procedures.

U.S. Pipe qualifies for Federal Procurement under Public Law No. 94-580, Section 6002, known as the Resource Recovery Act of 1976, since, due to modern technology, recycled iron and steel scrap is used to a large degree in our Ductile Iron Pipe production



Thicknesses, Dimensions and Weights of Ductile Iron TYTON JOINT® Pipe

Thicknesses and dimensions of 4" through 64" Ductile Iron pipe conform to ANSI/AWWA C151/A21.51. Weights may vary from the standard because of differences in bell weights.

				18-1 Laying	Foot Length		
Size Inches	Thickness Class	Thickness	Outside Diameter*	Weight Per Length†	Avg. Weight Per Foot††		
		Inc	hes	Pounds			
4	51	0.26	4.80	215	11.9		
4	52	0.29	4.80	235	13.1		
4	53	0.32	4.80	260	14.4		
4	54	0.35	4.80	280	15.6		
4	55	0.38	4.80	300	16.7		
4	56	0.41	4.80	320	17.8		
6	50	0.25	6.90	305	16.9		
6	51	0.28	6.90	335	18.6		
(6)	52	0.31	6.90	370	20.6		
6	53	0.34	6.90	400	22.2		
6	54	0.37	6.90	435	24.2		
6	. 55	0.40	6.90	465	25.8		
6	56	0.43	6.90	495	27.5		
8	50	0.27	9.05	430	23.9		
8	51	0.30	9.05	475	26.4		
8	52	0.33	9.05	520	28.9		
8	53	0.36	9.05	560	31.1		
8	54	0.39	9.05	605	33.6		
8	55	0.42	9.05	650	36.1		
8	56	0.45	9.05	690	38.3		
10	50	0.29	11.10	570	31.7		
10	51	0.32	11.10	625	34.7		
10	52	0.35	11.10	680	37.8		
10	53	0.38	11.10	730	40.6		
10	54	0.41	11.10	785	43.6		
10	55	0.44	11.10	840	46.7		
10	56	0.47	11.10	890	49.4		
12	50	0.31	13.20	725	40.3		
12	51	0.34	13.20	790	43.9		
12	52	0.37	13.20	855	47.5		
12	53	0.40	13.20	920	51.1		
12	54	0.43	13.20	985	54.7		
12	55	0.46	13.20	1045	58.1		
12	56	0.49	13.20	1110	61.7		

^{*} Tolerance of O.D. of spigot end: 4-12 in., ±0.06 in.; 14-24 in., +0.05 in., ~0.08 in.; 30-48 in., +0.08 in., -0.06 in.; 54-64 in., +0.04 in., -0.10 in.

[†] Including bell; calculated weight of pipe rounded off to nearest 5 lbs.

^{††} Including bell; average weight, per foot, based on calculated weight of pipe before rounding.

Tyler/Union

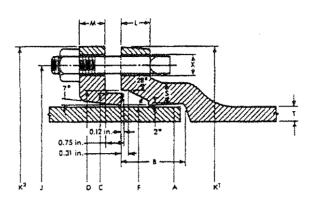
MECHANICAL JOINT C153 DUCTILE IRON COMPACT FITTINGS

Sizes 3" thru 12" UL Listed For Fire Main Equipment

SAMPLE SPECIFICATIONS

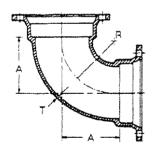
3" THRU 24" MECHANICAL JOINT DUCTILE IRON FITTINGS shall be produced in the USA in accordance with all applicable terms and provisions of ANSI/AWWA C153/A21.53 and ANSI/AWWA C111/A21.11.

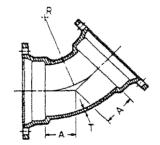
NOTE: Fittings are cement-lined and seal-coated in accordance with ANSI/AWWA C104/A21.4; also available double cement-lined or bare. See list price sheet for details.

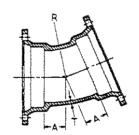


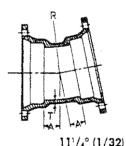
JOINT DIMENSIONS IN INCHES													BOL	rs	
Size	A Dia.	В	Ç Dia.	D Dia.	F Dia.	J Dia.	K¹ Dia.	K² Dia.	L	М	\$	T	X Dia.	Size	No.
3	3.96	2.50	4.84	4.94	4.06	6.19	7.62	7.69	.58	.62	.39	.33	3/4	5/8×3	4
4	4.80	2.50	5.92	6.02	4.90	7.50	9.06	9.12	.60	.75	.39	.34	7/2	3/4X31/2	4
6	6.90	2.50	8.02	8.12	7.00	9.50	11.06	11.12	.63	.88	.43	.36	7/a	$^{3}/x3^{1}/_{2}$	6
8	9.05	2.50	10.17	10.27	9.15	11.75	12.31	13.37	.66	1.00	.45	.38	7/k	$^{3}/_{4}x3^{1}/_{2}$	6
10	11.10	2.50	12.22	12.34	11.20	14.00	15.62	15.62	.70	1.00	.47	.40	7/ ₈	$^{3}/_{4} \times 3^{1}/_{2}$	8
12	13.20	2.50	14.32	14.44	13.30	16.25	17.88	17.88	.73	1.00	.49	.42	7/e	$^{3}/_{4}x3^{1}/_{2}$	8
14	15.30	3.50	16.40	16.54	15.44	18. <i>75</i>	20.31	20.25	.79	1.25	.56	.47	7/8	3/4×4	10
16	17.40	3.50	18.50	18.64	17.54	21.00	22.56	22.50	.85	1.31	.57	.50	⁷ /8	$^{3}/_{4}\times4$	12
18	19.50	3.50	20.60	20.74	19.64	23.25	24.83	24.75	1.00	1.38	84.	.54	7/a	$^{3}/\propto 4$	12
20	21.60	3.50	22.70	22.84	21.74	25.50	27.08	27.08	1.02	1.44	.69	.57	7/2	$^{3}/_{4}$ X4	14
24	25.80	3.50	26.90	27.04	25.94	30.00	31.58	31.50	1.02	1.56	.75	.61	7/8	3/4×41/2	16

BENDS









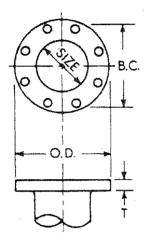
	90° Bends (1/4)				45° Bends (1/8)			221/2° Bends (1/16)			111/40 (1/32)		
Size	T	Dimensio A	ns R	Weight	Dime A	nsions R	Weight	Dime A	ensions R	Weight	Dime A	ensions R	Weight
3	.34	4.5	4.0	20	2.00	3.62	16	1.50	4.98	15	1.25	7,62	15
4	.35	5.0	4.5	26	2.49	4.81	22	1.82	6.66	21	1.55	10.70	20
6	.37	6.5	6.0	48	3.50	7.25	40	2.59	10.50	3 <i>7</i>	1.81	13.26	33
8	.39	7.5	7.0	68	4.00	8.44	59	2.85	11.80	51	2.06	15.80	48
10	.41	9.5	9.0	136	5.01	10.88	86	3.35	14.35	67	2.32	18.36	61
12	.43	10.5	10.0	141	5.98	13.25	109	3.86	16.90	90	2.56	20.90	79
14	.51	12.0	11.5	220	5.50	12.06	164	3.93	17.25	148	2.59	21.25	133
16	.52	13.0	12.5	264	5.98	13.25	202	3.98	17.50	179	2.62	21.50	159
18	.59	15.5	14.0	410	7.50	14.50	325	7.50	30.19	292	7.50	60.94	320
20	.60	17.0	15.5	505	8.00	16.88	368	8.50	35.19	364	8.50	71.07	346
24	.62	20.0	18.5	695	9.00	18.12	481	9.00	37.69	481	9.00	76.12	457



DUCTILE IRON C110 FLANGED FITTINGS

SAMPLE SPECIFICATION

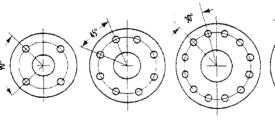
Flanged Fittings, 2" through 30" shall be manufactured in the USA of Ductile Iron in accordance with all applicable terms and provisions of standards ANSI/AWWA C110/A21.10 (current revisions). All Ductile Iron Flanged Fittings shall be rated for water pressure of 250 PSI. Note: Fittings are cement-lined and sealcoated in accordance with ANSI/AWWA C104/A21.4

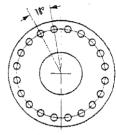


		F	LANGE DETA	ILS		
Nominal Pipe Size Inch	Flange O.D.	Dia. of Bolt Circle	Flange Thickness T	Bolt Hole Diameter	Number of Bolts	Bolt Dia. and Lengths
2	6	4.75	.62	.75	4	5/8× 21/4
3	7.5	6	.75	.75	4	$\frac{5}{8} \times 2^{1/2}$
4	9	7.5	.94	.75	8	$^{3}/_{8} \times 3$
6	11	9.5	1.00	.875	8	$3/4 \times 3^{1}/_{2}$
8	13.5	11.75	1.12	.875	8	$\frac{3}{4} \times \frac{3^{1}}{2}$
10	16	14.25	1.19	1.00	12	$7/8 \times 4$
12	19	17	1.25	1.00	12	7/*×4
14	21	18.75	1.38	1.125	12	$1 \times 4^{1/2}$
16	23.5	21.25	1.44	1.125	16	$1 \times 4^{\frac{1}{2}}/2$
18	25	22.75	1.56	1.25	16	$1^{1}/_{8} \times 5$
20	27.5	25	1.69	1.25	20	11/x×5
24	32	29.5	1.88	1.375	20	$1^{1}/4 \times 5^{1}/2$
30	38.75	36	2.12	1.375	28	$1^{1}/_{4} \times 6^{1}/_{2}$

Note: No flange joint material furnished.

NOTE: Drilling templates are in multiples of four, so that fittings may be made to face in any quarter. Bolt holes shall straddle the center line.





BENDS

2", 3"

4", 6", 8"

10", 12", 14"

16", 18"

20", 24"

Note: Base Bends are on Page 5 and 6, reducing and long radius 90 bends are on page 5.









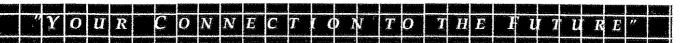
90° Bends (1/4)

45° Bends (1/8)

221/2° Bends (1/16)

111/4° Bends (1/32)

	70 00:103 (17-47			73	Deiles !	1/ 0/		/ 2 Deite	23 (1/ 10)	11 / L Denus (1/32)			
	Dim	ensions		Dime	ensions		Dime	nsions		Dimi	ensions		
Size	R	Α	Weight	R	A	Weight	R	A	Weight	R	A	Weight	
2	3.0	4.5	14	***	,,,	***		***	***				
3	4	5.5	25	3.62	3	20	7.56	3	20	15.25	3	20	
4	4.5	6,5	48	4.81	4	42	10.06	4	40	20.31	4	40	
6	6	8	74	7.25	5	òŏ	15.06	5	64	30.5	5	55	
8	7	9	118	8.44	5.5	105	17.62	5.5	90	35.5	5.5	90	
10	9	11	190	10.88	6.5	154	22.62	6.5	130	45.69	6.5	159	
12	10	12	275	13.25	7.5	195	27.67	7.5	231	55.81	7.5	195	
14	11.5	14	330	12.06	7.5	245	25.12	7.5	250	50.75	7.5	245	
16	12.5	15	430	13.25	8	315	27.62	8	315	55.81	8	315	
18	14	16.5	530	14.5	8.5	375	30.19	8.5	385	60.94	8.5	385	
20	15.5	18	685	16.88	9.5	595	35.19	9.5	505	71.06	9.5	505	
24	18.5	22	1085	18,12	11	730	37.69	11	755	76.12	11	760	
30	21.5	25	1755	27.75	15	1335	***	***	1385	116.75	15	1395	
							•						



Series 1100 MEGALUG® Mechanical Joint Restraint SAMPLE SPECIFICATIONS

RESTRAINT INCORPORATED INTO THE DESIGN OF THE FOLLOWER GLAND

- ◆ Gland body and restraint components made from minimum ASTM A536, 60-42-10 ductile iron
- Available 3 inch through 48 inch
 Conventional installation procedures
- per AWWA C-600
- ◆ Can be used with the standardized mechanical joint beli conforming to ANSI/AWWA C111 AZL.II and ANSI/AWWA C153/AZ1.53 of the latest revision
- Capable of full mechanical joint deflection during assembly
- Capable of joint deflection after assembly

MULTIPLE, WEDGE STYLE RESTRAINT MECHANISM

- Proper actuation ensured with torque limiting twist off nuts
- ◆ Ductile iron wedges heat treated to range of 370 to 470 BHN

PROOF TESTED

- ◆ 3 inch through 16 inch pressure rated at 350 psi, 18 inch through 48 inch rated at 250 psi
- Minimum safety factor of 2 to 1
- ◆ Listed by Underwriters Laboratories 3" through the 24" inch size
- Approved by Factory Mutual up through the twelve inch size
- Minimum weights per the following table

SUPPORT PRODUCTS AVAILABLE

• Split repair style available 3 inch through 48 inch

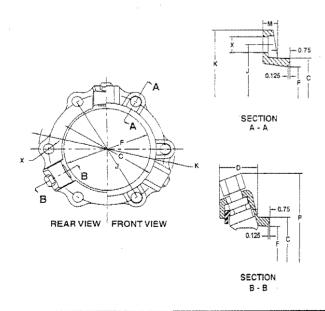
- Solid restraint harness available for push-on pipe bells
- Split restraint harness available for existing push-on pipe bells

MUST BE SERIES 1100, MEGALUG* AS PRODUCED BY EBAA IRON, INC. OR APPROVED EQUAL.

- All components cast and assembled in the United States by same company with plant visitation available
- Must have a record of a minimum of seven years of manufacturing and sales of the restraint in the United States

DIMENSIONS AND RATINGS

	NOMINAL		W	******	***************************************	P (With		,		WEDGES	BOLTS	WT	PRESS
SERIES	PIPE SIZE	G et	D	F	, M	Nuts Off)	X	J	K	enr	QIY (LBS	RATING
1103	3"	4.48	2.27	4.06	0.62	9.06	0.750	6.19	7.69	2	4	6.1	350
1104	4"	5.92	2,27	4.90	0.75	9,90	0.875	7.50	9.12	2	4	7.2	350
(1106)	ń"	8.02	2.27	7.00	0.88	12.00	0.875	9.50	11.12	3	6	12.0	350
1108	8"	10.17	2.31	9.15	1.00	14.15	0.875	11.75	13.37	4	6	16.0	350
1110	10"	12.22	2.37	11.20	1.00	16.20	0.875	14.00	15.62	6	8	24.9	350
1312	12"	14.32	2.37	13.30	1.25	18.30	0.875	16.25	17.88	В	8	32.7	350
1114	14"	16.40	2.69	15.44	1.50	20.94	0.875	18.75	20.25	10	10	49.7	350
111n	le"	18.50	2.69	17.54	1.56	22.90	0.875	21.00	22.50	12	12	58.2	350
1118	18"	20.60	2.69	19.64	1.63	25.00	0.875	23.25	24.75	12	12	62.2	250
1120	20"	22.70	2.69	21.74	1.69	27.10	0.875	25.50	27.00	14	14	74.8	250
1124	24."	26.90	3.20	25.94	1.83	32.64	0.875	30.00	31.50	16	16	138.8	250
1130	30"	33.29	3.20	32.17	2.25	38.87	1.125	36.88	39.12	20	20	195.4	250
1136	36"	39.59	3.20	38.47	2.25	45.17	1.125	43.75	46.00	24	24	256.5	250
1142	42"	45.79	4.56	44.67	3.88	55.57	1.375	50.62	53.48	28	28	510.2	250
1148	48"	52.09	4.56	50.97	3.88	51.87	1.375	57.50	60.36	32	32	712.0	250



- For test pressures above the rated pressures shown, consult the EBAA Engineering Dept for recommendations. For projects using large diameter restraints, please contact this office for our design recommendations.
- The 1100 Series should not be used on plain end fittings.
- If you experience the need to install the 1110 Series in an unconventional manner please consult our engineering department.
- The 1100 Series is intended for use on ductile iron pipe. The restraint can be used on grey iron pipe if the pipe is not severely corroded and is in sound condition and has an outside diameter that can be accommodated. For more information on the use of the MEGALUG restraint on grey iron pipe ask for Connections Bulletin DI-1.
- EBAA Seal Gaskets are provided with the 30" through 48" MEGALUG restraints. Extra length T-bolts are provided with the 42" and 48" sizes to facilitate easier assembly of the mechanical joint. These are required on the above referenced sizes to obtain the pressure ratings and safety factors shown.
- All MEGALUG components are made of ductile iron. The wedges are heat treated to a hardness range of 370 to 470 BHN. The product is coated with the same asphaltic coating specified for the pipe and fittings.
- LISTINGS AND APPROVALS Sizes 3" through 24" are listed by Underwriters Laboratories, Inc., Category HJKF "Fittings, Retainer Type," with a deflection angle of 5 degrees (3" through 12") and 2-1/2 degrees (14" through 24".) The listing file number is EX2836. Sizes 3" through 12" are Factory Mutual approved.



EBAA IRON SALES INC.

P.O. BOX 857 EASTLAND, TEXAS 76448 800-433-1716 FAX 254-629-8931



SUGGESTED SPECIFICATIONS FOR:

M&H AWWA Fire Hydrants - U/L-F.M. Approved ■ Style 929 Reliant.

GENERAL

Fire hydrants shall comply in all respects with AWWA Standard C-502, latest revision. Fire hydrants shall be of the compression type, with the main valve opening against the pressure and closing with the pressure. The main valve opening shall be (41/2" or 51/4") in diameter. Fire Hydrant shall be of a dry barrel, dry top design. The main valve on the hydrant shall remain closed, should the hydrant nozzle section be broken off by a traffic accident. The nozzle section shall be Three-Way, consisting of two (2) hose nozzles and one (1) pumper connection.

RATING

Fire hydrants shall be rated at 200 psi water pressure, tested at 400 pounds hydrostatic for structural soundness in the following manner: 400 pound hydrostatic test supplied from the inlet side, first with the main valve closed for the testing of the valve seat; second with the main valve open for testing of the drain valves and the barrel. Testing to be completed in accordance with AWWA C-502, any JLFM requirements.

END CONFIGURATIONS

Hydrants shall be connected to the main by a 6" fusion bonded, epoxy coated mechanical joint, flange or push-on shoe for C-900 or ductile iron pipe. Mechanical joint shoes and push-on shoes shall be fitted with strapping lugs.

DESIGN

The main valve seat of the hydrant shall be made of rubber and be supported by a one piece bronze top plate and drain valve mechanism and bottom plate. The bottom stem threads of the main valve rod shall be fitted with an epoxy coated, cast iron bottom plate and nut, sealing lower rod threads from the water. Drain valves shall be faced with rubber.

Changes in size or shape of the waterway shall be accomplished by means of easy curves. Exclusive of the main valve opening, the net area of the waterway of the barrel and the foot piece at the smallest part shall not be less than 120% of that of the net opening of the main valve.

Hose and steamer nozzles shall be threaded and screwed into the nozzle section. And then mechanically locked to prevent turning.

Hose and steamer caps shall be chained to the hydrant:

The hydrant shall be so designed that when it is in place, no excavation will be required to remove the main valve and movable parts of the drain valve. Further, the hydrants shall be of the type that can be extended without excavating. Hydrants shall be so designed that, in the event of accident, or breaking of the hydrant above or near grade level, the main valve will remain closed. The main valve rod shall be made in two parts and fitted with breakable feature at the ground line flange.

The ground line connection between nozzle section and the barrel shall incorporate the use of breakable lugs. This connection shall be so designed that the nozzle section can be rotated in any increment of 360°. The ground line connection between the barrel and nozzle sections shall have a rubber ring gasket to provide a seal.

The operating threads of the hydrant shall be so designed as to avoid the working of any iron or steel parts against either iron or steel. The operating stem and operating nut threads shall be square or acme type

The operating thread shall be lubricated with grease at the factory and the hydrant shall be equipped with an oil reservoir for convenient lubrication in the field. Access shall be provided through the weather shield to provide lubricant to the oil reservoir.

The operating thread shall be sealed from water at all times when the valve is either in the opened or closed position. The operating rod shall be bronze sheathed where it passes through the double "O" ring sealed oil reservoir chamber.

The bonnet shall be weather proof and utilize a weathershield integral with the external wrench operating nut.

DESIGN (Continued)

The internal operating nut shall be of bronze and a self-lubricating, anti-friction thrust bearing shall be provided to reduce operating torque. Additionally, the stem will be provided with a top stop nut to insure that when the hydrant is in the full open position, the stem, and the stem coupling are not under compression.

Hydrants shall be of the dry barrel type and hydrant shoe shall have two positive acting non-corrodible drain valves that shall drain the hydrant completely by opening when the main valve is closed, and close tightly in accordance with AWWA C-500 requirements when the main valve is open.

The main valve assembly shall be seated in the hydrant with a bronze to bronze interface to facilitate removal of the main valve, should maintenance be required. The nozzle section shall consist of two 2'' hose nozzles to the specified thread designation (NST or other, as specified) and one pumper nozzle $4\frac{1}{2}''$ in diameter to the specified thread designation (NST or other, as specified).

Hydrant standpipe shall be ductile iron and single piece for all bury depths.

All like parts of hydrants of the same size and model produced by the same manufacturer shall be inter-changeable.

Hydrant shall open by turning to the (left or right).

Threads on hose and steamer nozzles shall be National Standard unless otherwise specified

Size and shape of operating nuts and cap nuts shall conform to *National Standard* unless otherwise specified.

Bury shall be (specify depth of bury) measuring depth from grade line to bottom of trench or connecting pipe.

Auxiliary shut-off (isolation) gate valves, when required, shall be of the same manufacture as the hydrant.

COATING

The inside of all hydrants shall be coated in accordance with AWWA standards except for pronze and machined surfaces. Exterior on hydrant nozzle section shall be painted Fire Hydrant Red (or as specified).

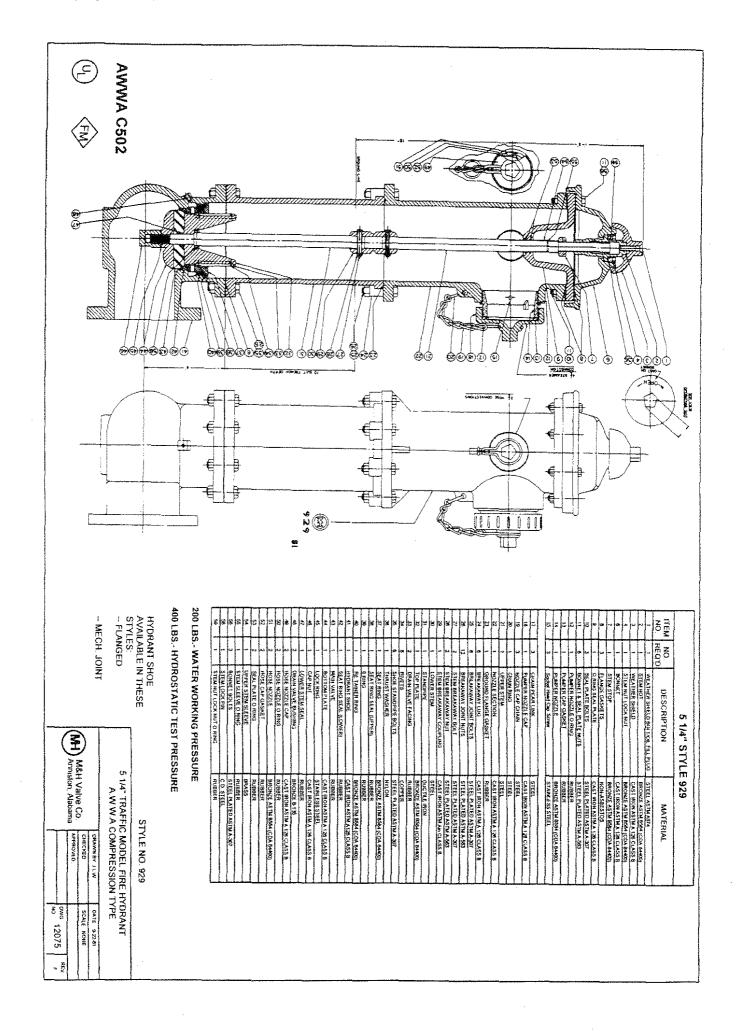
Hydrant shoes shall have protective, thermosetting epoxy coating applied inside and out before assembly. Prior to application of coating, shoes shall be mechanically and chemically cleaned in compliance with SSPC Standards SP-5 and SP-8. Average dry film thickness of 3 mils shall be applied on interior and exterior surfaces of hydrant shoe. Coating designation to be M&H 0601 epoxy and conform fully to AWWA C550-81. Section 3.

MARKINGS

Hydrant shall be marked with the name of the manufacturer, size of valve opening, and the year of manufacture, all in accordance with AWWA C-502.

SOURCE

Hydrants shall be M&H Style 929 "Reliant".



101

p.5

HD Fowler Company - MH4067MF22L

Mar 31 05 04:23p

M&H RESILIENT WEDGE VALVES (1993) M&H VALVE CO.

M&H VALVE Resilient Wedge Gate Valves Meet or Exceed the Requirements of AWWA Standard C509 UL-262/FM-1120/1130

Size Range	Water Working Pressure psi	Bubble-Tight Test psi	Hydrostatic Shell Test psi
2"-12"	250	250	500
14"-24"	200	200	400
ULPM 4" - 12°	200	200	400

Available in either non-rising stem or outside screw & yoke.

			Figure No.		
[·		Figure No.	with		
Available End Connections &	& Size Range	(STD)	Post Plate		
Fig. End (NRS)	2" - 24"	4067-02	(3" - 12") 4067-02P		
MJ,	2" - 24" (except 2 1/2	4067-01	(3" - [2") 4067-01P		
Fig. & M.J.	$3^n - 24^n$	4067-13	4067-13P		
Push-on for PVC (SDR)	2" - 8"	4067-03	(3" - 8") 4067-03P		
Fig. End (OS&Y)	2 1/2" - 12"	4068-02	N/A		
M.J. for Tapping	4* - 24 ^R	4751-01	4751-01P		
Push-on for D.I. & C900 PVC	4" - 12"	4067-22	4067-22P		
M.J. Cutting-in	4" - 8"	Apr que table .	(Consult K.V.)		
Push-on D.I. x Fig.	4" - 12"	4067-23	4067-23P		
Threaded	2" - 3"	4067-07	(3° only) 4067-07P		
Accessories			·		
Indicator Posts	Handwheels				
"T" Handles	Extesion Stems				
Stem Guides	Floor Boxes		2		
2" Sq. Operating Nuts	Chain Wheels				
Floorstands (non-rising stem)					

Mar 31 05 04:24p

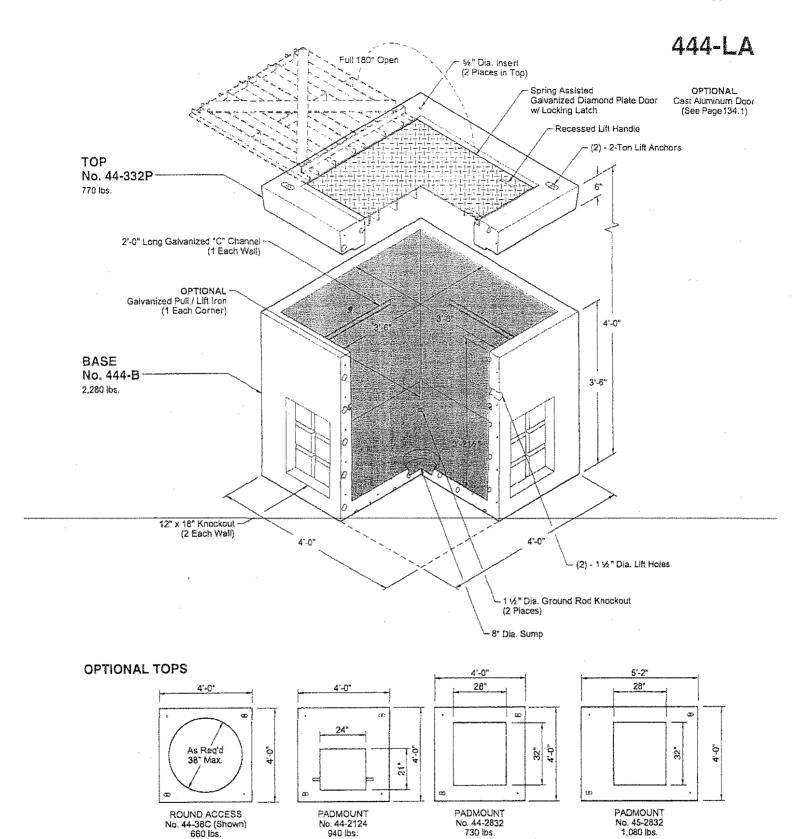
101

HD Fowler Company - MH4067MF22L

l									
ITEM	DESCRIPTION	MATERIAL	IASTM SPEC.						
11 6 19	HEX HEAD BOLTS	ZINC PLATED STEEL	ASTM A307 GRADE B						
2	FLAT WASHERS	ZINC PLATED STEEL	ASTM A307 GRADE B						
3	OPERATING NUT OR HAND WHEEL		ASTM A126 CL H						
4	HEX HEAD BOLTS & NUTS	ZINC PLATED STEEL	ASTM A307 GRADE 8 ASTM A126 CI B ASTM A536 70-50-05						
5	FOLLOWER PLATE 2"-8"	CAST IRON							
3	10"-12"	DUCTILE IRON							
		BUNA N	ASIM ASS6 70-30-05						
5	O-RING (STEM)	BUNA N							
7	O-RING (STUFFING BOX) THRUST WASHER								
8		DELRIN BRONZE	TEST BEAT OR COST						
9	STEM (AWWA GRADE C)		ASIM B584 CDA 867						
10	HEX HEAD BOLTS & NUTS	ZINC PLATED STEEL	ASTM A307 GRADE B						
11	COVER	CAST IRON	ASTM A126 CI B						
12	O-RING (COVER)	BUNA N							
13	STEM NUT (AWWA GRADE A)	BRONZE	ASTM A584 CDA 844						
7.4	WEDGE DISC	CAST RON & SER	ASTM A125 CL B						
15		CAST IRON_	ASTM A126 CLB						
16	WEDGE PROTECTOR CAP	DELRIN	pro pro- bar and and the date						
6 7 11 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
	10CRUACES U 01HCRMSC SP ULCHRED DCC ± 205 PACT, ±1/p4 ANGUS ±1' 5VRF, PH, 12 PADB 1/72	RESILIENT SEAT VALVE ASSEMBL NRS — STYLE							
	DESTANCE DIA	MACH VALVE COMPANY A PRISON OF THE PLANT A	DWN: RJ DATE: 04/12/01						

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPL MANUFACTURER'S CERTIFICATES OF COMPLIANCE				ES, OR	DATE	3/31/20	005	TRANSMITTALL NO.				
	(Read instructions on reverse s											
	SECTION I - REQUE	ST FOR APPROVAL OF T	HE FOL	LOWING IT	E MS (This	section will	be initiated t	by the contractor)				
TO:		FROM:			CONTR	ACT NO.		CHECK ONE:				
	Ecology & Environment	Wilder Construction (•	у				X THIS IS	A NEW TRAN	ISMITTAL		
	2101 Fourth Ave. Ste.1900	6645 NE 78th Ct. SteC	C-10		M	ac& Baxte	r Support	<u> </u>				
	Seattle,WA.	Portland,OR.97218	:					THIS IS A RESUBMITTAL OF				
	Attn: Alexander Whitman	(503)255-1444					TRANSMITTAL					
ā.	CIFICATION SEC. NO. (Cover only one section	1	ta me degree de			CHECK ONE: THIS TRANSMITTAL IS FOR FIO X E&E approval						
	ach transmittal)	McCOrmick & Baxter Supp			tions		·	FOR FIO				
ITEM NO.	DESCRIPTION OF ITEM SI	· · · · · · · · · ·		OR CONTR.	NO. OF	t .	REFERENCE IMENT	FOR CONTRACTOR	VARIATION (See	FOR CE		
NO.	(Type size, model number	s / etc.)	1	WING OR	COPIES	DOCU	INICIAI	USE CODE	instructions	USE		
			l .	CHURE NO.		SPEC.	DRAWING		No.6)	CODE		
a.	* b.		(See ins	truction no. 8)	d.	PARA NO.	SHEET NO.	q.	h,	1,		
1	Hydrant Valve/Service Vault w/ Galvani:	zed lid		Cat.	1		4					
2	Backflow Valve Vault w/Aluminum Door	S	ŕ	Cat.	1		4					
3	3											
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	Item two will be provided without the bottom section. It will be provided with 2 hatch a											
						contract drawings and specifications except as other wise stated						
						NAME AND SIGNATURE OF CONTRACTOR						
SECTION II - APPROVAL ACTION												
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No. 44-38C (Shown) 660 lbs.

> Phone (503) 682-2844 Fax (503) 682-2657

No. 44-2124 940 lbs:

10.0

For Details and Additional Information, See:

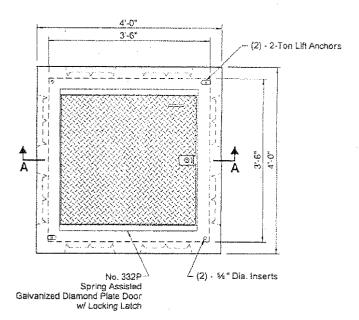
- · Reverse Side
- · ACCESS DOORS Section
- · RISERS Section
- · Racking and Hardware, Page 64.0

* ITEMS SHOWN ARE SUBJECT TO CHANGE WITHOUT NOTICE.

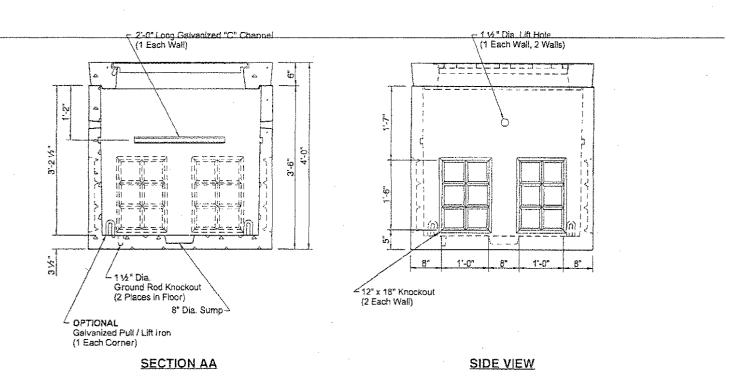
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Issue: 1998

444-LA



PLAN VIEW





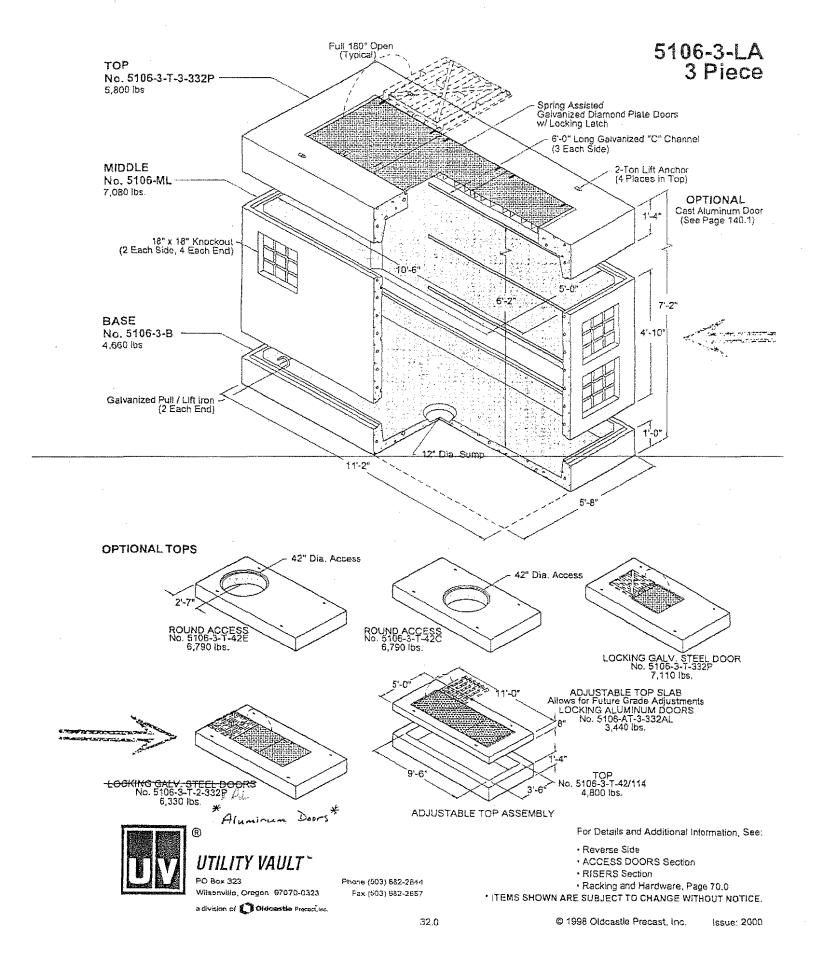
SCALE: 1/2" = 1'-0"

Phone (503) 682-2844 Fax (503) 682-2657

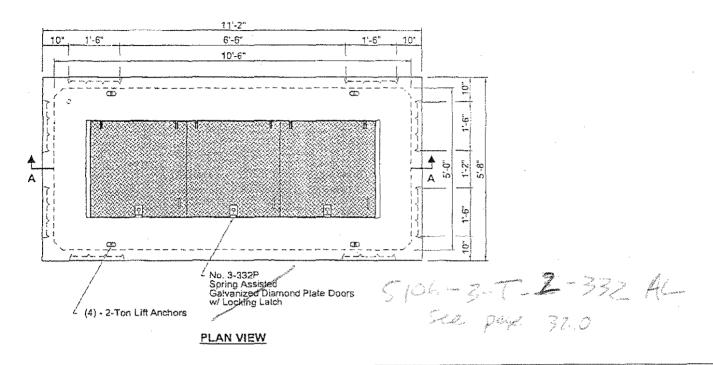
*ITEMS SHOWN ARE SUBJECT TO CHANGE WITHOUT NOTICE.

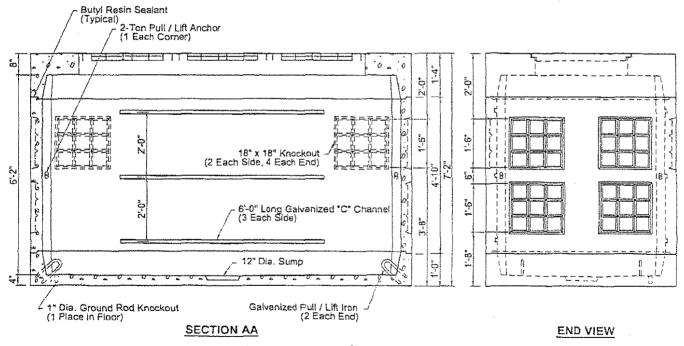
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5106-3-LA 3 Piece





SCALE: 3/8"=1'-0"



Phone (503) 682-2844 Fax (503) 682-2657

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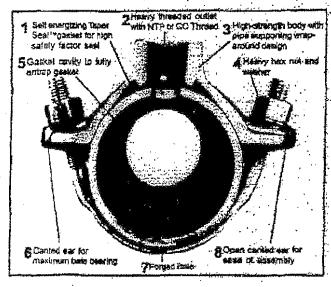
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Issue: 2000

ī	RANSMITTAL OF SHOP DRAWINGS, EQU	IPMENT DATA, MATERIAL	SAMPLES, OR	DATE			TRANSMITTALI	L NO.		
	MANUFACTURER'S CERTIF	ICATES OF COMPLIANCE			4/4/20	905		7		
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	SECTION I - REQUE	ST FOR APPROVAL OF T	HE FOLLOWING IT			be initiated l				
TO:		FROM:		CONTR	ACT NO.		CHECK ONE:			
	Ecology & Environment	Wilder Construction				X THIS IS	A NEW TRAN	ISMITTAL		
l	2101 Fourth Ave.Suite 1900	6645 NE 78th Ct. Ste0	Ma	ac &Bac S	upport					
	Seattle,Wa. 98121	Portland,OR.97218		·			THIS IS A RESUBMITTAL OF			
	Attn: Zander Whitman	(503)255-1444					TRANSMITTAL			
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NO.	(Type size, model numbers		CAT., CURVE DRAWING OR	OF COPIES	DOCL	MENT	CONTRACTOR USE CODE	(See Instructions	CE USE	
	5/4" SelV	ice fittings	BROCHURE NO.	COPIES	SPEC.	DRAWING	bae cope	No.6)	CODE	
			(See instruction no. 8)		PARA NO.	SHEET NO.				
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1	Service Saddles		Cat.	1						
2	Corporation Valves		Cat.							
3	Copper Tubing		Cat.	_			·			
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Smith-Blair® Genne and Gupling places





Smith-Bisino TaperSeal ** Wrap-sround Service Saddles are designed to provide maximum support and reinforcement of the pipe as the result of hearly 350° contact: When installed on a pipe with an outside planteter that its equal to or near to the top of the saddle's O.D. range, the saddle body wraps around the pipe approximately 160°. One pipe that has an O.D. equal to or near to the bottom of the saddle's O.D. range, the saddle body will wrap around the pipe approximately 180°.

As the bale bolts are tightened, tangential pull directs the mechanical forces toward and around the pipe, uniformly distributing pressure around the circumference of the pipe to support and reinforce it.

Sealing Queitties.

Smith-Blain Service Saddles are designed to hold high pressures with just a few pounds of torque applied to the bale nuts. The unique, pressure energiced TaperSee! ** gasket, which seals as the result of both mechanical and hydrostatic pressures, is contained within a tapered gasket cavify cast into the saddle body. This feeture provides a positive hydro-mechanical seal, and prevents the gasket from being blown out along the pipe. At the recommended tarque on the bale nuts, Smith-Blain Service Saddles are designed to hold pressures in excess of the working pressure of the pipe.

311 & 313 TaperSeal™ Service Saddles Ductile Iron

Stability of Pipe

The wide skirt on Smith-Blair® TaperSeal* Service Seddle bodies, combined with the wrap-around feature, results in excellent stability of the saddle on the pipe. These two features work together to prevent the saddle from rocking or creeping on the pipe, as might be caused by vibration, pressure or excessive external loading. This makes possible the use of single bale saddles instead of double bale saddles on many installations, resulting in substantial savings.

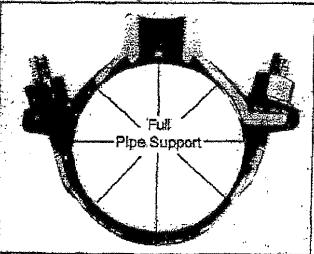
Single or Double Bale

The optimum number of bales needed is based on two factors: the pipe O.D. and the outlet size. Double straps are necessary to accommodate for larger pipe O.D.'s and to equalize gasket pressure around larger outlets.

Easy to Install

For fast, easy installation, Smith-Blair® TaperSaal™ Service Saddles feature a closed lug on one side of the body that holds one end of the strap and its nut in place and acts as a hings. The other side features an open, canted lug into which the other end of the bale and its nut and washer can be slipped. Therefore, there are no loose parts and disassembly is not required.





311 Service Saddles, Ductile Iron, Single Bale 3/4" and 1" NPT Taps

	· U. 4. 16				T T	M e	tric	
Nom. Siza Inches	O.O. Range Inches	Wit.	Catalog	Ctn. Oty.	Hom. Size M.M.	O.O. Ranga M.M	Wit. Each Kg.	
			3/4" NP 1/20/654	1" NPT/2588M				
1 1-1/14-1-1/2	1,31-1,39 1,61-192	.9 1.3.	311-013906-000 511-018206-000	N.A. 311-019295-000	12 12	25-32 40	33-35 41-48	.4 .6
2 2	2,35-2,55 2,38	1.6 1.6	311-025806-010 311-023806-010	311-025808-600 311-023808-600	12 12	50 50	60-65 60	.7 .7
2-1/4-2-1/2 3	2.44-2.91 2.97-3.54	1.9 2.4	311-029100-060 311-035406-080	311-029108-000 311-035408-000	8 12	57-65 80	52-73 76-89	• ,9 1.1
3-4	3,74-4.55	2.9	311-045506-600	311-045508-000	12	80-100	95-115	1.3
4-5	4.74-5.63	3.2	311-056305-600	311-058308-000	10	100-125	121-143	1.5
5-6	5.94-5.90	4:3	311-056365-000	J11-065302-000	8	125-150	151-175	2,5
€	6.84-7.60	4.6	311-076005-000	311-074008-000	10	150	174-593	2.1
6-8 6-3 6-8	7.65-8.05 7.59-8.72 7.89-9.05	4,8 5.0 6.0	311-080808-080 311-087206-080 311-098506-080	341-020#96-000 311-087296-000 311-090506-000	10 10 10	150-200 150-200 150-200	195-205 195-221 195-230	2.2 2.3 2.3
8-10 10-12 12-14	8.54-10.10 10,64-12.12 12.52-14.32	5.3 5.4 6.5	311-101806-000 311-121206-000 311-143206-000	311-101006-000 311-121206-000 311-143206-000	10 £ 5	200-250 250-360 300-350	217-256 271-307 321-363	2.4 2.5 2.9

1-1/4", 1-1/2" and 2" NPT Taps

	U, E.		J				Matric		
Nom.	C.D. Range Inches	WL.		Çtn.	Non.	0. D.	, Wt.		
Size inches		Eschi Lbe.	1-1/4" NPT/32MM	1- 1/2" NP1/40 MM	2" MFT/50 KM	GKy.	Size M M	Range-	Each Kg.
2 2-1/4-2-1/2	2.35-2.56 2.44-2.91	2.2 2.7	311-025610-000 311-029110-000	311-025612-000 311-029112-000	H.A. N.A.	6 6	50 57-65	60-65 62-73	1.0 1.2
3	2.97-3.54	3.0	311-035416-000	311-035412-000	N.A.	ð-	80	76-89	1.4
3-4	3,74-4.55	₹.4	311-045510-000	311-045512-000	311-045514-000	ô	80-100	95-115	2.0
4-5 5-6	4.74-5.63 5.94-6.90	4.5. 5.0	311-056310-000 311-066310-000	311-050312-800 311-065312-060	311-056314-000 311-056314-000	6 #	100-125 125-150	121-143 151-175	22 23
6 5-2 8-8 78-8	6.84-7.50 7.68-9.08 7.69-8.72 7.59-9.05	5.5 5.8 6,0 6.0	311-075016-000 311-080818-000 311-087210-000 311-090510-000	311-078012-060 311-060812-600 311-067212-600 311-060512-000	311-076514-000 311-0#0814-000 311-0#7214-000 311-089514-000	6. 8 8	150 150-200 150-200 150-200	174-193 185-205 195-221 185-230	2.5 2.6 2.7 2.7
8-10	8.54-10.10	6.2	311-101019-000	311-101012-000	311-101014-050	ð	200-250	217-256	2.8
10-12	10.64-12.12	8.2	311-121210-000	311-121212-000	311-121314-000	8	250-300	271~307	2.8
12-14	12.62-14.32	6,5	311-143210-000	311-143212-000	311-143214-000	6	300-350	321-363	3.0



3/4" - 2" MUELLER® 300™ BALL CORPORATION VALVES



8-25008

574" * 1"

MUELLER® 3000 Ball
Corporation Valve
Inlet: AWWA taper
(MUELLER "CC") thread
Outlet: MUELLER® 110®
Conductive Compression
Connection for CTS O.D* tubing

1-1/2" x 2"



B-25028

MUELLER® 300TM Ball Corporation Valve Inlet: AWWA LP, thread Outlet: MUELLER® 110® Conductive Compression Connection for CTS O.D. tubing

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				1 3
13/4" \3/4" x 1"	**	1-1/024	1-1/2* x 2*	79.4° (1
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3/4° x 17



B-25009

MUELLER 300 Ball Corporation Valve Inlet: AWWA taper (MUELLER "CC") thread Outlet: MUELLER *110 * Compression Connection for IPS PE* pipe

1-1/2"



B-25029

MUELLER 300 Ball Corporation Valve Inlet: AWWA I.P. thread Outlet: MUELLER 110° Compression Connection for IPS PE* pipe

11*

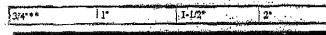
E-25009



34

E-25029

MUELLER 300 Ball
Corporation Valve
Inlet: AWWA IP thread
Outlet: MUELLER
Pack Joint for IPS PE** pipe
"Note 34" size only may also be used on PVC



3/4", x 1".



V-25056

MUELLER 300 Ball Corporation Valve Talet: AWWA taper (MUELLER "CC") thread Outlet: MUHLLER Pack Joint for IPS PVC pipe



Corporation Valve
Inlet: AWWA LP thread
Outlet: MUELLER
Pack Joint for IPS PVC pipe

MUELLER 300 Ball

1-1/1

V-25058

1-1/2] 2

12"



P-25008

MUELLER 300 Ball Corporation Valve Inhet: AWWA usper (MUELLER "CC") thread

Outlet: MUELLER Pack Joint
Connection for CTS O.D. * tubing



P-25028

MUELLER 300 Ball
Corporation Valve
Inlet: AWWA LP thread
Outlet: MUELLER Pack Joint
Connection for CTS O.D.*
tubing

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MUELLER Corporation Valves: are manufactured and feated in accordance with ANSIVAWWA COOK.



CAMBRIDGE-LEE INDUSTRIES, INC.

Cambridge-Lee Industries is a national distributor of copper tubing and related plumbing and refrigeration products.

With 13 warehouses strategically located to provide you with the best possible service available.

PLUMBING TUBE PRODUCT RANGE

PRODUCT	TEMPER	LENGTHS	CODE	SPECIFICATIONS
COPPER WATER TUBE TYPE K	HARD SOFT	20 FT. STRAIGHT 20 FT. STRAIGHT 60 FT. COILS) 1/4 · 1 1/4 1/4 · 1 1/4	GREEN	ASTM - 8 - 88 FEDERAL - WW - T - 799
COPPER WATER TUBE TYPE L	SOFT	20 FT. STRAIGHT 20 FT. STRAIGHT 60 FT. COILS 1/4 - 1 1/4 100 FT. COILS 1/4 - 1 1/4	BLUE	ASTM - B - 88 FEDERAL - WW - T - 799
COPPER WATER TUBE TYPE M	HARD	20 FT. STRAIGHT	RED	ASTM - B - 88 FEDERAL - WW - T - 799
COPPEA DRAINAGE TUBE	HARD	20 FT. STRAIGHT	YELLOW	ASTM - 8 - 306
ACR (TYPE L)	HARD	20 FT. STRAIGHT	BLUE	ASTM - 8 - 280
REFRIGERATION TUBE	SOFT	50 FT. COILS 100 FT. COILS	CRIMSON	ASTM - 8 - 280 FEDERAL - WW - T - 775
COPPER PIPE REGULAR EXTRA HEAVY	HARD	20 FT. STRAIGHT	BLACK	ASTM - B - 42 FEDERAL - WW - P - 377
RED BRASS PIPE REGULAR EXTRA HEAVY	HARD	12 FT. STRAIGHT 1/8 - 4 20 FT. STRAIGHT 1/8 - 3 1/2		ASTM - B - 43 FEDERAL - WW - P - 351
OXY TUBE	HARD	20 FT. STRAIGHT		ASTM - 8 - 819

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SPE	Ecology & Environment 2101 Fourth Ave.Suite 1900 Seattle,Wa. 98121 Attn: Zander Whitman	ST FOR APPROVAL OF T FROM: Wilder Construction 6645 NE 78th Ct. Stet Portland, OR. 97218 (503)255-1444 PROJECT TITLE AND LOC	CONTR	s section wi RACT NO. ac &Bac S	•	CHECK ONE: X THIS IS A NEW TRANSMITTAL THIS IS A RESUBMITTAL OF TRANSMITTAL CHECK ONE: THIS TRANSMITTAL IS			
	ach fransmittel) 16000	McCOrmick & Baxter Supp	ort Facility Modifica	tions			FOR FIO		proval
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2	Rigid Conduit		cat	2					
3	Schedule 40 PVC electrical Conduit		cat	2	}				
4	Indeeco Unit Heater		cat	2					
	Acme Fan		cat	2					
6	Safe Air Damper		cat	2					
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GALVITE® Rigid Steel Conduit

Strong, rigid, safe

GALVITE® Rigid Steel Conduit from LTV Steel offers the highest available strength, rigidity, ductility, system safety and protection. This product is suitable for the most demanding industrial/commercial building and construction service, in both indoor and outdoor environments.

LTV Steel produces GALVITE from high-quality, American-made carbon steel and certifies its domestic manufacture. Integrated Process Control throughout steel melting, strip rolling, forming and welding operations assures consistent properties, accurate sizes and excellent surface quality.

Product features

GALVITE is free from "burnt" or hard spots in the metal. Welds are smooth, strong and sound. The uniformity of metal composition and size assures easier threading and bending. The inside surface is smooth, clean and free from burns and rough spots,—enhancing wire pulling.

GALVITE is not-dipped galvanized inside and out. This tightly adhering finish doesn't chip, peel or flake off even under bending tests more severe than required by specification or encountered in normal installation. A secondary chromate treatment is applied over the galvanizing to extend surface protection.

GALVITE is readily formed and joined. Next to bendability, connecting ease is perhaps the feature most sought by those who work with nigid conduit. GALVITE threads are metallized with zinc to provide added corrosion protection. When short lengths are cut on the job, the ductility and uniformity make cutting and threading easier, an important source of installation economy.

Availability

Manufactured by the Electric Resistance Welded (ERW) process, GALVITE conduit is processed from high-quality domestic coils of flat rolled steels. It is produced in the nominal sizes and weights listed on the reverse side, and is furnished in 10' lengths with a coupling on one end.

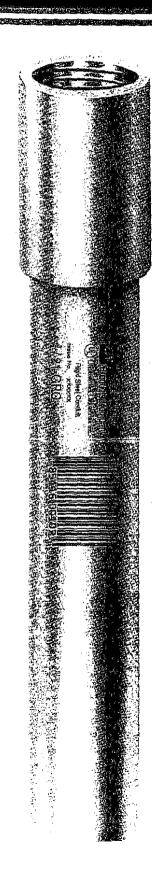
GALVITE is supplied with color-coded end caps for easier size identification and thread protection.

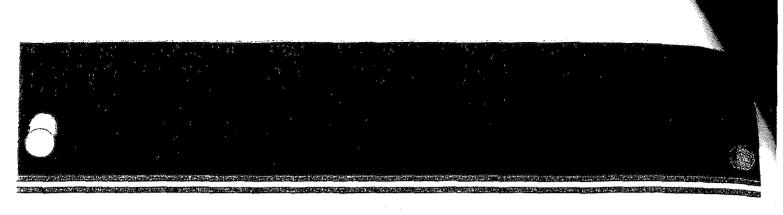
Quality

LTV Steel's Integrated Process Control system ensures GALVITE and other products meet the highest standards for quality and consistency. Continuous monitoring and the use of statistical process controls minimize variability throughout processing and allow for constant evaluation of product and process for refinement and improvement. GALVITE is tested and inspected during manufacture for conformance to UL-6 and ANSI Specification C80.1.

Technical support

LTV Steel Tubular Products Company offers expert technical support to conduit customers. For information or assistance, write to the address listed on the reverse side.





GALVITE® RIGID STEEL CONDUIT - Dimensions and Weights

The values stated in feet/pound units are to be the standard. The metrical equivalents may be approximate.

HATE AI	je sizegiji			Nomika	i ivsibe	NOMINA	WEIGHT.		ess	STATOA	HUUEIS	Barrier.	FEFERDS
PESIC	NATOR	FOUTSIDE	DAVEER		EERI	HEU	OFFER	EBÜNDEE	E PER	Cpile 1	推進	Q T	BEENE
#US I	#METPLE!					e de de la	A KO DE		FEE	翻海	HUS		
1/2	16	.840	21.34	.622	15.80	82	37.2	100	2500	762.5	2050	929.7	14
3/4	21	1.050	26.67	.824	20.93	109	49.4	50	2000	610.0	2180	988.7	14
1	27	1,315	33.40	1.049	26.64	161	73.0	50	1250	381.3	2013	912.9	11.5
11/4	35	1.660	42.16	1.380	35.05	218	98.9	-	900	274.5	1962	889.8	11.5
11/2	41	1.900	48.26	1.610	40.89	263	119.3		800	244.0	2104	954.2	11.5
2	53	2.375	60.33	2.067	52,50	350	158.7	***	600	183.0	2100	952.4	11.5
21/2	63	2.875	73.03	2.469	62.71	559	235.5		370	112.9	2068	937.9	8
3	78	3.500	88.90	3.068	77.93	727	329.7		300	91.5	2181	989.1	8
31/2	91	4.000	101.60	3.548	90.12	880	399.1		250	76.3	2200	997.7	- 8
4	103	4.500	114.30	4.026	102.26	1030	467.1		200	61.0	2060	934.2	8
5	129	5.563	141.30	5.047	128.19	1400	634.9	****	150	45.8	2100	952.4	8
6	155	6.625	168.28	6.065	154.05	1840	834.5	-	100	30.5	1840	834.5	8

Conduit is furnished in nominal 10' lengths with both ends threaded. Applicable length tolerance: length = 1/4" (± 6.35 mm) - without coupling. A coupling is screwed on one end and a thread protector is on the other. Conduit is always identified by its English or Metric Trade Size Designator. All dimensions and weights shown above are nominal.

OUTSIDE DIAMETER

For trade sizes through 2" For trade sizes 21/2" through 4" ±0.015* (±0.38 mm)

±0.025" (±0.64 mm)

For trade sizes 5" and 6"

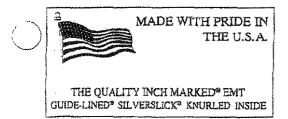
±1%

GALVITE Conduit (Color Code - End Caps by Size)

A Product	e Egyllist		Efcologiande a
GALVITE	1/4"	sizes	Red
Rigid	1/2"	sizes	Black
Conduit	1ª	sizes	Blue

Quality Guarantee

If at any time within one year of the shipment date from an LTV Tubing facility, you are not satisfied with the quality of electrical conduit products purchased from LTV Tubular Products, we will promptly replace the material - free of charge. This guarantee applies to all electrical conduit products except where environmental conditions preclude one year of service life.



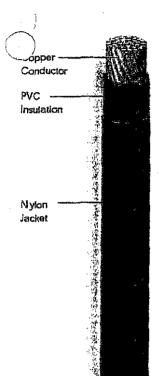


Steel Tubular Products

Tubular Products Company P.O. Box 1000 1315 Albert Street Youngstown, OH 44501-1000

_____THHN-/-MTW-/-THWN-2-COPPER-CONDUCTOR





ENGINEERING SPECIFICATIONS:

Standards: Underwriters laboratories Standard UL-83, UL-1063, UL-758.

Federal Specification A-A-59544

New York State DOS 16120-87-1222-1048 ASTM Class B Stranding AVVM Spec 1316, 1317, 1318,

1319, 1320, 1321

Canadian Standards Association C22.2 No. 75

NEMA WC5/ICEA S-61-402

Packaging: 14 and 12 AWG - 4 x 500' spools, 2,000' per carton or 2,500' reels. 10 AWG - 2 x 500' specis, 1,000' per carton or 2,500' reef. 8 AWG - 500' carton, 1,000'. 2,500', or 5,000' reel. 6 AWG - 500', 1,000', 2,500'.

or 5,000" reel. 4 AWG through 1000 KCMIL -- 500",

1,000', or longer lengths on reels.

Application:

Encore Type THHN-THWN-2 building wire is Intended for general purpose applications as defined by the National Electrical Code (NEC). Suitable for new construction or rewiring for 600-volt applications. When used as type THHN or THWN-2, conductor is suitable for use in wet or dry locations at temperatures not to exceed 90°C, or not to exceed 75°C in oil or coolants. When used as type MTW, conductor is suitable for use In dry locations at 90°C, or not to exceed 60°C in wet locations or where exposed to oils or coolants. When used as type AWM temperatures should not exceed 105°C in dry locations.

Size AWG Size	No. of Strands	Insulation Illucturese PVC (mils)	Rylon Jacket Thickness (mils)	Approx. Outside Diameter (inches)	Alles 60° C	valite Ampo	rátřes 90° C	Approx. Shipping Ubs./M.Fr.
14 12 10	Solid Solid Solid	15 15 20	4 4 4	0.102 0.118 0.150	15 20 30	15 20 30	15 20 30	17 25 39
14 12 10	19 19 19	15 15 20	4 4 4	0.110 0.128 0.161	15 20 30	15 20 30	15 20 30	18 27 40
8 6 4 3 2 1	19 19 19 19 19	30 30 40 40 40 50	5 5 6 6 7	0.212 0.250 0.318 0.345 0.375 0.430	40 55 70 85 95 110	50 65 85 100 115	55 75 95 110 130 150	69 109 166 202 254 316
1/0 2/0 3/0 4/0	19 19 19 19	50 50 50 50 50	7 7 7 7 7	0.470 0.515 0.565 0.620	125 145 165 195	150 175 200 230	170 195 225 260	398 488 603 731
250 300 350 400 500	37 37 37 37 37	60 60 60 60 60	8 8 8 8	0.730 0.780 0.830 0.880 0.970	215 240 260 280 320	255 285 310 335 380	290 320 350 380 430	903 1058 1211 1332 1735
600 750 00	61 61 61	70 70 70	9 9 9	1,060 1,170 1,300	355 400 455	420 475 545	475 535 615	1990 2468 3263

city shown above is per the 2002 National Electrical Code.

The above data is approximate and subject to normal manufacturing tolerances.



LISTED SOLID E-123774 STRANDED E-156879

Construction:

Conductors:

Solid conductors, uncoated copper, per ASTM B3.

Stranded conductors uncoated copper per ASTM B3, ASTM B787 and ASTM B8.

Conductors Insulation:

Color-coded, Polyvinyi chloride (PVC), heatand Moisture-resistant, flame-retardant compound per UL-83 and UL-1063.

Jacket:

A tough, polyamide, outer-nylon covering per UL-83 and UL-1063.

Features:

Slick, outer-nylon jacket for easy pulling. VW-1 rated 14 AWG - 1 AWG, 1/0 AWG and larger is rated for CT use. 6 AWG and larger is rated for Sunlight Resistance in all colors. All sizes are rated "Gasoline and Oil Resistant II."

Print Legend:

Conductor Sizes 14 AWG through 10 Awg Solid: E123774 (SIZE) AWG TYPE THHN OR THWN-2 GASOLINE AND OIL RESISTANT II VW-1 600V (UL) OR AWM OR C-(UL) TYPE T90 NYLON OR TWN 75 FT1

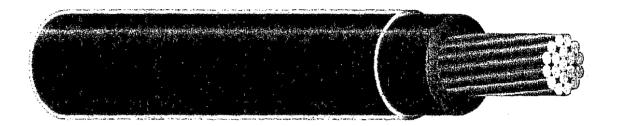
Conductor Sizes 14 AWG through 1 AWG Stranded: E156879 (SIZE) AWG TYPE MTW OR THHN OR THWN-2 GASOLINE AND OIL RESISTANT II VW-1 600V (UL) OR AVVM OR C-(UL) TYPE T90 NYLON OR TWN 75 FT1 DATE/TIME/OPER

Conductor Sizes 1/0 AWG - 500 KCMIL Stranded: E156879 (SIZE) AWG OR KCMIL TYPE MTW OR THHN OR THWN-2 GASOLINE AND OIL RESISTANT II SUNLIGHT RESISTANT FOR CT USE 600V (UL) OR C-(UL) TYPE T90 NYLON OR TWN 75 FT1 DATE/TIME/OPER

Conductor Sizes 500 KCMIL - 1000 KCMIL Stranded: E156879 (SIZE) KCMIL TYPE MTW OR THHN OR THWN-2 GASOLINE AND OIL RESISTANT II SUNLIGHT RESISTANT FOR CT USE 600V (UL) DATE/TIME/OPER



600 Volts. Copper Conductor. Thermoplastic Insulation/Nylon Sheath
Heat, Moisture, Oil, and Gasoline Resistant 1
Sizes 8 AWG and Larger Rated THWN-2. All Stranded Sizes Rated MTW
Sizes 14 Through 6 AWG Rated AWM (105 °C)
Sizes 14 Through 1 AWG Rated VW-1. Size 1/0 AWG and Larger Listed for CT Use
Black Size 2 AWG and Larger Listed Sunlight Resistant



APPLICATIONS

Southwire Type THHN or THWN-2* conductors are primarily used in conduit and cable trays for services, feeders, and branch circuits in commercial or industrial applications as specified in the National Electrical Code ². When used as Type THHN, conductor is suitable for use in dry locations at temperatures not to exceed 90 °C. When used as Type THWN-2*, conductor is suitable for use in wet or dry locations at temperatures not to exceed 90 °C or not to exceed 75 °C when exposed to oil or coolant. When used as Type MTW, conductor is suitable for use in wet locations or when exposed to oil or coolant at temperatures not to exceed 90 °C (with ampacity limited to that for 75 °C conductor temperature per NFPA 79). Conductor temperatures not to exceed 105 °C in dry locations when rated AWM and lised as appliance wiring material. Voltage for all applications is 600 volts.

SPECIFICATIONS

Southwire Type THHN or THWN-2* or MTW (also AWM) meets or exceeds all applicable ASTM specifications, UL Standard 83, UL Standard 1063 (MTW), Federal Specification A-A-59544, and requirements of the National Electrical Code.

CONSTRUCTION

Southwire Type THHN or THWN-2* or MTW copper conductors are annealed (soft) copper, insulated with a tough heat and moisture resistant polyvinyl chloride (PVC), over which a nylon (polyamide) or UL-listed equal jacket is applied. Available in black, white, red, blue, green, yellow, brown, orange, and gray. Some colors standard, some subject to economic order quantity. Sizes 1 AWG through 1,000 kcmil available in black only. Conductor sizes 2 AWG and larger listed and marked sunlight resistant in black only.

1 Oil and gesoline resistant II as defined by Underwriters Laboratories.

² 2002 Edition.

*rated -2 for 8 AWG and larger only.







WEST COAST AIR PRODUCTS, INC.

Manufacturer's Representatives of HVAC products and services

SUBMITTAL DATA

for Indeeco Unit Heater

Project:	McCormack & Baxter	Date:	3/29/05
	•	Revision No.:	
Architect:		Submitted for	Approval
Engineer:		Submitted by	Neil Watt
Contractor:	Amphere Electric	WCAP Job:	05082

- 1. The product description for specification conformance is shown below. For dimensions and quantities, see attached Product List.
- It is the contractor's responsibility to verify all sizes prior to ordering equipment. Sizes submitted are based on contract documents and must be verified against field conditions.
- 3. Unless otherwise noted, this data is submitted for approval by the authorized party. Orders released for production prior to receipt of such approval are the responsibility of the customer for conformance to specification and dimensional requirements. Any changes made to orders placed without approval may be subject to additional costs.

Tag	Qty	Description	Size	Reference
	2	Indeeco Unit Heaters, UH Series Provided with the following features: Built-in load carrying single pole thermostat	See attached	Indeeco 90-3025-83
			•	

Accessories (ship loose):
Wall or Ceiling bracket (See Note 1)

NOTE: 1. Contractor to verify whether ceiling or wall mounted bracket is required.

kW	Volts	Volts Phase ⁽²⁾ Total Amps		CFM	Approx. Air Temp Rise °F(°C)	Catalog Number	Installed Weight (Lbs)
1	208	1	14	350	27 (15)	239-U103C ⁽³⁾	15
-	240	1	13	350	27 (15)	239-U103J ⁽³⁾	15
3	277	1	11	350	27 (15)	239-U103N ⁽³⁾	15
	208	3	8	350	27 (15)	239-U103D	15
	240	3	7	350	27 (15)	239-U103K	15
	480	. 3	4	350	27 (15)	239-U103U	15
	208	1	24	350	46 (26).	239-U105C ⁽³⁾	15
	240	1	21	350	46 (26)	239-U105J ⁽³⁾	15
5	277	1	18	350	46 (26)	239-U105N ⁽³⁾	15 .
	208	3	14	350	46 (26)	239-U105D	15
	240	3	12	350	46 (26)	239-U105K	15
	480	3	6	350	46 (26)	239-U105U	15
1	208	1	36	650.	37 (21)	239-U207C	25
1	240	1	31	650	37 (21)	239-U207J	25
7.5	277	1	27	650	37 (21)	239-U207N	25
	208	3	21	650	37 (21)	239-U207D	25
	240	3	18	650	37 (21)	239-U207K	25
	480	3	9	650	37 (21)	239-U207U	25
	208	1	48	650	49 (27)	239-U210C	25
	240	1	42	650	49 (27)	239-U210J	25
10	277	1	36	650	49 (27)	239-U210N	25
	208	3	28	650	49 (27)	239-U210D	25
	240	3	24	650	49 (27)	239-U210K	25
	480	3	12	650	49 (27)	239-U210U	25

Notes:

- (1) Total load includes fractional motor load.
 (2) All three-phase heaters have balanced loads.
 (3) All standard heaters are supplied with built-in 24 Volt transformer and contactor except the six items designated⁽³⁾.
- (4) Heaters must be ordered with either wall or ceiling mounting bracket.

Factory Built-In Options

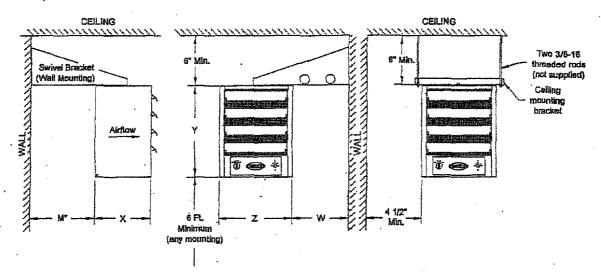
Code	Description
D	Power disconnect switch.
М	Manual reset thermal cutout (in additional to automatic reset cutout).
P	"Heater On" pilot light.
R	Relay required for remote three-position selector switch
R2	Built-in 24 Volt transformer and magnetic contactor for 3 & 5 kW; single phase heaters at 208, 240 or 277 Volts.
T5	Load-carrying single pole thermostat.
U	Three-position selector switch (Heater-Standby-Fan).
Х	120 Volt transformer to replace 24 Volt transformer.

Accessories

	710003301	100
	Part Number	Description
	1018799	Wall mounting bracket.
R	1020172	Ceiling mounting bracket.
	1020173	Remote three-position selector switch. (Heater-Standby-Fan)*
F	1007014	Load-carrying wall mounted thermostat.
	1006998	Low voltage (24VAC) wall mounted thermostat.

See Catalog C90, Page 23 for selection of remote mounted thermostats. *Options R2 & R are required for 3 & 5 kW; 208, 240 & 277 Volt single phase heaters.

Option R required for all heaters.

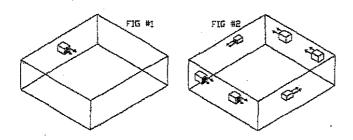


	KW		Dim	Weight	Max. Air Throw				
	Ratings	M*	W	Х	Y	Z	Lbs (kgs)	Feet (m)	
	3-5	11 (27.94)	9 (22.86)	9 (22.86)	14 1/2 (36.83)	12 (30.48)	15 (6.8)	15 (4.6)	
	.7.5-10	11 (27,94)	8 (20.32)	11 (27.94)	19 1/2 (49.53)	14 1/2 (36.83)	25 (11.34)	18 (5.5)	

^{*} Minimum Inlet clearance required for any mounting position.

Application

Small rooms may only require one unit heater (FIG #1) while other may require multiple unit heaters for proper perimeter circulation (FIG #2).





10220 SW Nimbus Ave., Suite K11 Portland, OR 97223

PHONE:

503-639-3820

WEB SITE: www.cascadeairequipment.com

FAX: 503-639-9814

March 29, 2005

Amper Electric Attn: Jackie 7500 SE Division St. Portland, OR 97206

Project: McCormick and Baxter

We propose to furnish the following material for the project listed above:

ACME Engineering & Manufacturing

Fan	Model	
PAR	AFOGE	

Motor

Notes

FQ108HI

115v/1/60 TEAO

Includes Back Guard, Speed Control

Safe Air/Dowco

<u>Model</u>	Motor	Notes
Safe Air Damper 611	115v/1/60	Intake/Exhaust
Dowco Louver DWF-04	N/A	Intake/Exhaust

CONSTRUCTION FEATURES

FAN PANEL - Construction of heavy gauge steel. Wide flange on all four sides provides extra strength and rigidity to reduce the possibility of vibration and for a more secure installation. Standard finish is acrylic epoxy.

STREAMLINED ORIFICE - Die formed for uniformity, the deep streamlined orifice provides for high efficiency airflow throughout the propeller.

EASY TO INSTALL - Prepunched holes in flange saves on installation time and cost.

MOUNT IN ANY POSITION - All motors are equipped with all-angle thrust ball bearings.



FQ09 AND 10



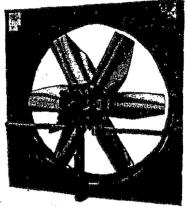
FQ12 THRU 18



FN14 THRU 18



FQ21 THRU 36



FN21 THRU 48

EXHAUST MODELS FQ09 and 10 utilize the rugged motor side wire guard as the motor support means thereby making this guard standard equipment. Front (propeller side) guard is optional. FQ09 and FQ10 are not available in reverse flow (supply).

EXHAUST MODELS FQ12 to 36 have the motor mounted on an all welded steel plate and formed pipe frame assembly for extra strength and rigidity. Front and back guards are optional on these sizes. FQ1210 and FQ129 are not available in reverse flow (supply).

EXHAUST MODELS FN14 to 48 have the motor mounted on an all welded steel plate and formed pipe frame assembly for extra strength and rigidity. Front and back guards are optional on all sizes

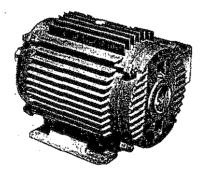
REVERSE FLOW (SUPPLY) FANS

Supply fans are available in all models except FQ09, 10, 1210 and 129. The airflow capacity is the same as for exhaust type fans as shown on page 4.

Only circular basket type guards are available with these faps.

When supply type fans are used with motorized wall dampers, it is recommended to use WAGC and

WAGCH center pivot dampers. A time delay is recommended in the fan motor's starter control circult to allow the damper to fully open before the fan is activated.



RESERVE MOTOR POWER - Fans are designed with conservative motor loadings and efficient motor cooling to obtain longer motor life under continuous duty operation.

All motors are totally enclosed type with lubricated sealed ball bearings. All single phase motors have automatic resetting thermal overloads for low voltage protection.

Models FQ09, 10, 1210 & 129 use two speed tapped winding, single phase, shaded pole type ball bearing motors only.

All other models have split phase; capacitor start, capacitor run, or permanent split capacitor single phase motors. Some are available in two speed types.

Explosion resistant and three phase single speed motors are also available for some models. Consult your Acme Representative for more details plus availability of motors.

Single phase motors are resilient mounted in circular neoprene vibration isolators integral with the motor base.



DIMENSIONAL DATA

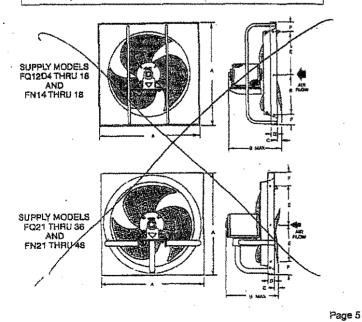
FAN MODEL	A	B Max.	С	D	E*	F		Sauges Biades
MUULL	in.	in.	in.	in.	in.	īn.	Ga.	153*
FQ09	12.00	5.75	1.50	1,50	8.00	2.00	18	.050
FQ10	14.00	7.00	3.00	1.50	10.00	2.00	18	.050
FQ12	16.00	13,25	4.00	1.50	10.00	3.00	18	.063
FQ 14	18,00	15,00	4,50	1,50	10.00	4.00	18	.080
97V14**	18.00 -	13.67	3.75	1.50	10.00	4.00	18	.080
FQ18	21.00	15.50	5.00	1.50	8,00	2.50	18	.080
FN16-1	-21.00 ·	14.76	4.00	9:50	≈8,00	2.50	.48	2080
FQ18	23,00	19.00	5,50	1.50	9.00	2.50	18	.080
S LENI8	323.00	13.82	44.60	A604	9.00	2.50	§ 18.5	080
FQ21	26.50	17,50	8.00	1.75	10,00	3.25	18	.080
FN21	26.50 5	* 17.71	*5.00	1.75	10,00	3.25	46 9	1,7080
FQ24	30.00	20.00	8,50	1.75	8.00	3.00	16	.080
TN24 10 5	6 80,00	47.78	6.00	n (275	8.00	3.00	40 8	-,125
FQ38	37,50	25.25	7,50	1.75	10.00	3.75	16	.125
FN30	<i>₂</i> 37,50 °	20.13	(B,00	475.	10.00	3.75	自6學	÷125
FQ36	45.00	24.75	8.00	1.75	12.00	4.50	16	.125
AH FINSO	3.45.08 H	21.38	9.00	175	12.00	4,50	16 75	fal25-
401 BB 42 C 16 C	*60.00*f	18.62	6.97	3.06	25.00	¥.50	A 45	25
STANABLE ST	64,000	2100	×7.50 ×	2.06	16.00	3.00	W	19.25

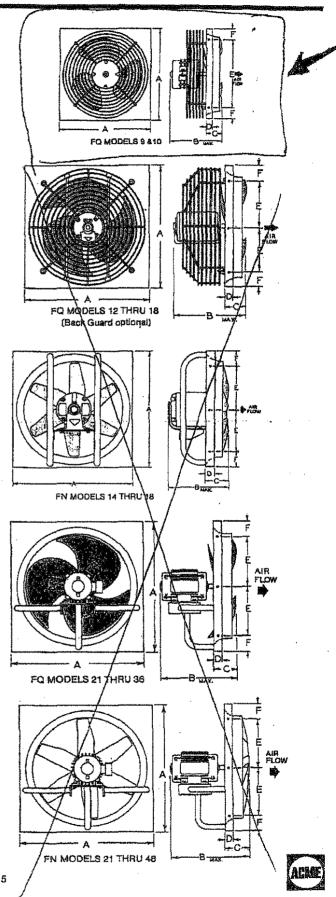
SUPPLY FANS

	A B Nax.	Ср	E4	E	Metal Gauges			
FAN MODEL	A	D MUDE, C			EE -		Orifica	Blackes
MOULL	in.	in.	ln.	in.	្សែ.	Jer.	Ga,	ln.
FQ-R12	16.00	14.75	2.50	1.50	10,00	3.00	18	.063
FQ-R14	18.00	16.75	3.25	1.50	10.00	4.00	18	.080
E-DIRITION	31800	13:50	1.50	P (50)	30.00	4002	100	SECURITY OF
FQ-R16	21.00	20.00	4.50	1.50	8.00	2.50	18	.080
LINRIG T	12 .00	17.00	1 50	7.00 F	38.00	2.50	448	DEO.
FQ-R18	23.00	21,75	4.00	1,50	9.00	2.50	18	.080
FN418	±23.00 M	19.00	1.50	407.30° a.	6.00	2.50	200	-000 V
FQ-R21	25.50	22.00	2.75	1.75	10.00	3.25	16	.080
FNRZY	¥ 26.50 ÷	22.00	1.75	- U5.3	#000	3 25	0.0	D80
FQ-R24	30.00	21,00	1.50	1.75	5,00	3,00	16	.080
FN.R24	30.00	25.00	25 ·	1.75	8.00	3.003	.48	125
FQ-R30	37.50	27.09	4.50	1.75	10.00	3.75	15	.125
FNR30	¥ 37.50	25.50	1.4.75	176	90	8.75	(35元	125
FQ-R36	45.00	25.25	5.00	1.75	12,00	4.50	16	.125
FN-R38	45.00	1.00.00	3.75	1.75		4.50	6.3	4125
《FN/R426學	80.00	30.50	F)2.00	3.08 W	\$15.00	拉 -50 5	44	. 3125 kg
∃EN#R48 ≾≇	164.00 .25	132,25	2.50	7A.06	#16,00	8.00%	- 48.4 治	125

*The number of holes varies depending on fan size. FQ09 thru FN14 - 2 Holes, FQ16 thru FN21 - 3 Holes, FQ24 thru FN48 - 4 Holes.

Typical drawings for dimensional purposes only, which are correct within limits suitable for normal installation requirements and do not necessarily show actual construction.





B On and Off-Site Material Test Results

B-1 002688.OY21.29.03

Carlson Testing, Inc.

70507344

Construction Inspection & Related Test.
Geotechnical Consulting

Main Office P.O. Box 23814 Tigard, Oregon 97281 Phone (503) 684-3460 FAX (503) 684-0954

Salem Office 4060 Hudson Ave., NE Salem, OR 97301 Phone (503) 589-1252 FAX (503) 589-1309 Bend Office P.O. Box 7918 Bend, OR 97708 Phone (541) 330-9163 FAX (541) 330-9163

REPORT OF IN-PLACE DENSITY TESTS

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Carlson Testing, Inc.

Main Office P.O. Box 23814 Tigard, Oregon 97281 Phone (503) 684-3460 Fax (503) 684-0954 Salem Office 4060 Hudson Ave., NE Salem, OR 97301 Phone (503) 589-1252 Fax (503) 589-1309 Bend Office P.O. Box 7918 Bend, OR 97708 Phone (541) 330-9155 Fax (541) 330-9163

Special Inspection

Optomi Ambiotom	1 050	 <u></u>
W VEIDT DEDOOT		

DAILY FIELD I	REPORT
Project: HECORMACK + BAXTER	Date: 4-13-05
Job Address: 6400 N. ELGELWATER	CTI Job No. 10140600
Permit No.: SUPERFUNI, SITE NOTEROS	Type of Inspection: REBAR - CONC
Field or Fab Shop	Weather: OV ETCHST
Inspection Notes (include location, testing data, substitutions/deviations acceptance criteria, corrected non-conforming items, etc.):	, materials and methods of construction, non-conforming items,
At the REQUEST OF MIKE @	WILDER, INSPECTED REBAR
FOR SIX FOOTINGS AND PIER	
	(BURJOIL) 30 HPA, 4000
PSI CONCRETE WAR TO SAF	
SET OF PEST CYLINDERS	
4 %, YEAR 610, AMBIG	TN4 500 F.
*** CHECK ONE BO	OV ON! V ***
 This is a preliminary inspection only OR - The work inspected conforms to acceptance criteria listed above. If non-conforming items are clearly stated above and will be added to tare not preliminary in nature, are to be considered as conforming. 	"No," the portions of the work that are
Inspector: The The All	Certification No.: 18 657

Main Office

P.O. Box 23814 * Tigard, Oregon 97281 Phone (503) 684-3460 * FAX (503) 684-0954

Salem Office

4060 Hudson Ave., NE • Salem, OR 97301 Phone (503) 589-1252 • FAX (503) 589-1309

Bend Office

P.O. Box 7918 • Bend, OR 97708 Phone (541) 330-9155 • FAX (541) 330-9163

REPORT	<u>of 4-</u>	6×12	TES	T SPECIM	<u>ENS</u>				
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	r. <u>U.</u>				Sub Contractor: _				
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Carlson Testing, Inc.

Main Office P.O. Box 23814 Tigard, Oregon 97281 Phone (503) 684-3460 Fax (503) 684-0954

Salem Office 4060 Hudson Ave., NE Salem, OR 97301 Phone (503) 589-1252 Fax (503) 589-1309

Bend Office P.O. Box 7918 Bend, OR 97708 Phone (541) 330-9155 Fax (541) 330-9163

Special Inspection

of

DAILY FIELD REPORT
Project: MEGORMAK & FAXTER CHOSCHE Date: MAY Z 7005
Job Address: 1900 N FOREUM FOR CTI Job No. TO SO 7949
Permit No.: Type of Inspection: Type of Inspection:
Field 🗷 or Fab Shop Weather:
Inspection Notes (include location, testing data, substitutions/deviations, materials and methods of construction, non-conforming items, acceptance criteria, corrected non-conforming items, etc.): Noted Report For Monal thick 5/4 and grade Conformed to the Approved planso Ress Island Mix MBNR 3010 WAS Placed IN SAM And Vibrated Shop BOG Floor Slab I Set of 3 cylinders under Rest Island Mited Williams Protect Conformation (Aland Ress Island And Verified The Mix 123 4000ps; Mix
*** CHECK ONE BOX ONLY *** 1. This is a preliminary inspection only OR - 2. The work inspected conforms to acceptance criteria listed above. If "No," the portions of the work that are non-conforming items are clearly stated above and will be added to the NCL. Remaining portions of the work, which
are not preliminary in nature, are to be considered as conforming.

Certification No.: 601

Construction Inspection & Related Tests Geotechnical Consulting

Main Office

P.O. Box 23814 • Tigard, Oregon 97281 Phone (503) 684-3460 • FAX (503) 684-0954

Salem Office

4060 Hudson Ave., NE • Salem, OR 97301 Phone (503) 589-1252 • FAX (503) 589-1309

Bend Office

P.O. Box 7918 • Bend, OR 97708 Phone (541) 330-9155 • FAX (541) 330-9163

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Carlson Testing, Inc.

P.O. Box 23814 Tigard, Oregon 97281 Phone (503) 684-3460 Fax (503) 684-0954 4060 Hudson Ave., NE Salem, OR 97301 Phone (503) 589-1252 Fax (503) 589-1309 P.O. Box 7918 Bend, OR 97708 Phone (541) 330-9155 Fax (541) 330-9163

Special Inspection

Page ____of ___

DAILYF		KEP	OKT
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Project: MCCormack + Baxter Sile	Date: 5-6-05
Job Address: 6900 n. Edge water	CTI Job No.
Permit No.:	Type of Inspection: Robar / Conc
Field or Fab Shop	Weather: Cloudy
Inspection Notes (include location, testing data, substitutions/deviation acceptance criteria, corrected non-conforming items, etc.):	s, materials and methods of construction, non-conforming items,
as requested C.T.I. Rep. 175 pe	cted the rober placement
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area. Reinforcement conform	
site plans, and verbal direc	tion from the Design
Engineer for slab-on- gra	de reinforcement of # 5
a4 12'0c ew. C.T.I. Rop. 065	erved the placement of
a Ross I stand concrete m.	
sample for field test and co	
cylinders.	
Grote: C.T. T. Rep. Spoke with HE	e Job super intendent
about removing the round of.	
wooden stakes from the concr	
stakes would be pulled and	the voids filled with concrete.
*** CHECK ONE B	OX ONLY *** YES NO
 This is a preliminary inspection only OR - The work inspected conforms to acceptance criteria listed above. If 	"No." the portions of the work that are
non-conforming items are clearly stated above and will be added to	
are not preliminary in nature, are to be considered as conforming.	
Inspector laday 11 Wight	Certification No.: 641 COR
Inspector: Cally // //	Certification No.: 411 (-0-1)

Use of the information contained in this report constitutes accentance of all terms on the reverse of this form and Carlson Testino. Inc. 's General Conditions

Construction Inspection & Related Tests Geotechnical Consulting

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TEST SPECIMENS Permit No: Job No. Jurisdiction: Sub Contractor; Air Temp. at Sampling Time: _ Cylinders were cast for the following location: otal Concrete Placement Location: _ 4000 -PSI @ 25 Days - Conc. Temp. 775 - % Air: 4.8 - Slump: Aix Number: 3010 BUANDINAMOUNT: Test @ Register Date Date Total Unit Corrected Set Tested Area Number Days Load PSI PSI No. Rec'd Test Ву 28 28

some GRAMI WRIGHT

emarks:

Carlson Testing, Inc.

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Salem Office 4060 Hudson Ave., NE Salem, OR 97301 Phone (503) 589-1252 Fax (503) 589-1309

Bend Office P.O. Box 7918 Bend, OR 97708 Phone (541) 330-9155 Fax (541) 330-9163

Special	enspection	Page of
DAILY FIEL	DREPORT	2017 (A) 2017 (A) 2018 (A)
Project: McCornick + Bartice	Date: 5/12/0T	
Job Address: 6900 N Elle Julie 7	CTI Job No. 70507949	
Permit No.:	Type of Inspection: Russale /	Collecte
Field or Fab Shop	Weather: Dyop Cast	
Inspection Notes (include location, testing data, substitutions/devia	ions, materials and methods of construction, n	on-conforming items,
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Certification No.:_

4315:S.E. MCLUUGHLIN ELVU PORTLAND, OREGON 97202 OFFICE 238-5604

VANCOUVER 694-1534

JOB NOLE STA PATELIA MULL TOPETHEE PROJECT ID 4 1 CUSTOMER NO. U. P. C. Ultripe SOLD TO SEZO ME PORTEAND HUY V - 344186 TICKET NO. Me : Doen FORTERND - OREGON TIME WANTED 1 12 17206 TRUCKING. LOCATION/DIRECTION TOO WELFGEWATER ST DRIVER RALPH BURNS SLAD Labbrert 1 USE TENTEN / NETWAT TERMS ZONE SIGNAR 11 ... 11 ENVIRONMENTAL FEE M LOAD QTY TOTAL OTY DESCRIPTION PRICE AMOUNT **37**。看到13 LIBBI TEVERSE ELEFTERES 1.000 35.4461 MEVASOLO SOMMA SYN' MEX WYASH Lander ULL SUBLITABLE - THIS DELIVERY QTY ORDERED NOTES: 37-364 SUB TOTAL SLUMP LOAD NO ALL DE er. Si SALES TAX 14.01 TOTAL LEFT. START * CAUTION EXCESS UNLUADING PLANT UNLOAD BOL NO. WATER ADDED BY CUSTOMER ARRIVED FINISH MAY CAUSE EYE OR SKIN INJURY TIME LINLOAD. ALLOWANDE WASHINGTON MILES CONTAINS PORTLAND CEMENT If any mixture gets into the eye, flush immediately and see a doctor. If any mixture gets onto the skin, wash promptly with water. BY SIGNING BELOW, YOU ACKNOWLEDGE RECEIPT OF THE PRODUCTS IDENTIFIED ABOVE, AND AGREE TO THE SALE TERMS ON THE REVERSE SIDE. NOT RESPONSIBLE FOR DAMAGES ON DELIVERY INSIDE CURBILINE RECEIVED BY DELIVERY TICKET / CUSTOMER KEEP OUT OF REACH OF CHILDREN maric SCHUAL I HEREBY CERTIFY THAT THE AGGREGATES 175772 USED IN THIS CONCRETE ARE REPRESENTED BY SAMPLES TESTED AND APPROVED FOR THE 321 OREGON DEPARTMENT OF TRANSPORTATION 111 Parn 45 OUR CEMENT SUPPLIER HAS CERTIFIED THAT THE CEMENT COMPLIES WITH A S.T.M. SPECIFI V iii 14.112 anna, bo at CATIONS OF THE OREGON DEPARTMENT OF 2097-25 SON 11 + (1) TRANSPORTATION THE PROPORTION OF ALL -01 MATERIALS ARE IN ACCORDANCE WITH THE MIX 公产制 11-97 DESIGNS FOR THE PROJECT. graff. **HOSS ISLAND SAND & GRAVEL** 506 191 THEAT) 0.44



PORTLAND 239-5500 VANCOUVER 694-1534

CONCRETE CUSTOMER NO 1336 18 JOB NOLE TE DATECO - OL - 2005 PROJECT ID 5 16 11 12 17 SOLD TO BE WEDEN TOWNSTRUCTION LEVILLET V = JAMINS SUSSE HE HOTTLAND HWY TICKET NO. TIME WANTED ASSIBLEM PORTLANDA ONLGON 13.00 97206 73 TRUCK NO DRIVER TROY TO CHRAN HOO W ENGLWATER NI ME USE BAZINTH ZHETIST TERMS ZONE^Py . 565 ENVIRONMENTAL FEE LOAD OTY TOTAL QTY DESCRIPTION PRICE AMOUNT I MAMT 1. 4443 MOVESTEED STREAM STAR MIX WASTE £ 9.00CY HaDDCY MBVREDIO BOMPA EZAS MIX WZAIR UEL KURÇMARGE - THIS LUUFEE SLUMP OTY ORDERED NOTES 3 3 2 2 2 SUB TOTAL SALES TAX LOAD NO. 27.52 C4.GB TOTAL TIME START * CAUTION UNLOAD ON JOB EXCESS UNLOADING PLANT . BY CUSTOMER MAY CAUSE EYE OR SKIN INJURY ARRIVED. FINISH WASHINGTON MILES CONTAINS PORTLAND CEMENT UNLOAD ALLOWANCE if any mixture gets into the eye, flush immediately and see a doctor. BY SIGNING BELOW, YOU ACKNOWLEDGE RECEIPT OF THE PRODUCTS IDENTIFIED ABOVE, AND AGREE TO THE SALE TERMS ON THE REVERSE SIDE. If any mixture gets onto the skin wash promptly with water NOT RESPONSIBLE FOR DAMAGES ON DELIVERY INSIDE CURB LINE RECEIVED BY DELIVERY TICKET / CUSTOMER EEP DUT OF REACH OF CHILDREN Hirisor **Matarit** I HEREBY CERTIFY THAT THE AGGREGATES USED IN THIS CONCRETE ARE REPRESENTED BY 774 (1,5% 7357.23 KA SAMPLES TESTED AND APPROVED FOR THE N TO 9.07 5247 93 86 OREGON DEPARTMENT OF THANSPORTATION 0.0% 2687.53 KG OUR CEMENT SUPPLIER HAS CERTIFIED THAT THE CEMENT COMPLIES WITH A S.T.M. SPECIFI-0.08 2070.03 Mt VX. CATIONS OF THE OREGON DEPARTMENT OF 7097-25 ML 0.04 TRANSPORTATION THE PROPORTION OF ALL ond L MATERIALS ARE IN ACCORDANCE WITH THE MIX C 7 188 11.00 DESIGNS FOR THE PROJECT. 719.20 () () () ROSS ISLAND SAND & GRAVEL 177 271 4 WYGAL. .101 WAT/CEN MATIO #

4315 S.E. MOLOUGHLIN BLVD. PORTLAND, OREGON 97202 OFFICE 239-5504

PORTLAND 239-5500 VANCOUVER 694-1534

CUSTOMER NO. 30 3 44 1 6 natella = 0 h = 21 m S PROJECT ID (6) OR NO. 1 ictoben COMETRUCTION SOLD TO BELLEVIEW V m Allianda SEED WE HORTLAND HWY TICKET NO PORTLAND ORFRON паздори TIME WANTED 种型源程度 45 TRUCK NO LOCATION/DIRECTION SUB W EDGEWATER ST DRIVER ANDREW BRININGTO TERMS KI/LOTH /NETLST ZONEPar bas x ENVIRONMENTAL FEE FI LOAD OTY DESCRIPTION PRICE TOTAL QTY AMOUNT 11 7673 台。數值的等 BUMPA BAND MIX WAATR TRURATIO ADDRAG SOUP BIX WALTE Signity In BOY HEL THREHARDE - THIN DELTATELY LUMPER SLUMP LOAD NO OTY ORDERED NOTES: \$ \$ \$ \$ \$ \$ SUB Int. 27,52 SALES TAX 量位。但重 TOTAL * CAUTION ON JOB EXCESS LINLOADING WATER ADDED BY CUSTOMER ABRIVED TIME MAY CAUSE EYE OR SKIH INJURY ALLÓWANCE WASHINGTON MILES CONTAINS PORTLAND CEMENT LIMI CAFT If any mixture gets into the eye. BY SIGNING BELOW, YOU ACKNOWLEDGE RECEIPT OF THE PRODUCTS IDENTIFIED flush immediately and see a doctor ABOVE, AND AGREE TO THE SALE TERMS ON THE REVERSE SIDE. if any inixiure gets onto the skin, NOT RESPONSIBLE FOR DAMAGES ON DELIVERY INSIDE CURB LINE wash promptly with water. RECEIVED BY DELIVERY TICKET/ CUSTOMER KEEP OUT OF REACH OF CHILDREN **下牌独立**文 I HEREBY CERTIFY THAT THE AGGREGATES 特才格 11. 4. 7 USED IN THIS CONCRETE ARE REPRESENTED BY K.T. SAMPLES TESTED AND APPROVED FOR THE \$ 112 OREGON DEPARTMENT OF TRANSPORTATION. the Date 心門實 OUR CEMENT SUPPLIER HAS CERTIFIED THAT 17 fig.H2 THE CEMENT COMPLIES WITH A.S.T.M. SPECIFIentrovita int CATIONS OF THE OREGON DEPARTMENT OF 7日刊》。[3] 5 · 20] 包约翰里 11.112 TRANSPORTATION THE PROPORTION OF ALL MATERIALS ARE IN ACCORDANCE WITH THE MIX 搜 對對 1979 L DESIGNS FOR THE PROJECT: 704.074 RAN 0.112 ROSS ISLAND SAND & GRAVEL 214.131. 前九人一直登取 加克丁 Lik GAL) D. 44 划在学习代码的 初春生工作

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ROSS ISLAND SAND AND GRAVEL CO.

4315 S.E. McLOUGHLIN BLVD. PORTLAND, OREGON 97202 OFFICE 239-5504 DISPATOR OFFICE PORTLAND 239-5500 VANCOUVER 694-153

DIECT ID. CUSTOMER NO JOB NO. LD TO 现色;原在角网 BEDFORD CONSTRUCTION TICKET NO. A - 343748 SARO NE PORTLAND HMY TIME WANTED PORTLAND, OREGON \$9:300M TRUCK NO. OR 97806 $\mathcal{E}_{\mathcal{L}}$ DRIVER CATION/DIRECTION GARY WILSON 6900 M EDGEWATER ST UGF (135530) FOOTINGS TERMS 24/10TH /NET15T ENVIRONMENTAL FEE NE TOTAL QTY JOAD OTY DESCRIPTION PRICE **AMOUNT** MBURBOID BOMPA 3/4" MIX W/AIR S. BBM3 6.88M3 9.000% MRURSOID SOMPA 3/4" MIX W/AIR 9.000 FUEL SURCHARGE / THAS DELIVERY __. i. DOFEE e years QTY, ORDERED NOTES: LOAD NO. 9934 TOTA SALES 22V 64 TOTAL START 7158F * CAUTION WATER ADDED UNLOAD BOL NO. . EXCESS UNLOADING BY CUSTOMER FINISH MAY CAUSE EYE OR SKIN INJURY IVED (TIME L UNLOAD WASHINGTON MILES ALLOWANCE _ CONTAINS PORTLAND CEMENT If any mixture gets into the eye, flush immediately and see a doctor, If any mixture gets onto the skin, SIGNING BELOW: YOU ACKNOWLEDGE RECEIPT OF THE PRODUCTS IDENTIFIED IVE. AND AGREE TO THE SALE TERMS ON THE REVERSE SIDE. NOT RESPONSIBLE FOR DAMAGES ON DELIVERY INSIDE CURB LINE wash promptly with water. -DELIVERY TICKET / CUSTOMER KEEP OUT OF REACH OF CHILDREN SIGN HERE I HEREBY CERTIFY THAT THE AGGREGATES Mat. Moist Actual USED IN THIS CONCRETE ARE REPRESENTED BY SAMPLES TESTED AND APPROVED FOR THE OREGON DEPARTMENT OF TRANSPORTATION 3/4 1 . 3% 730E, SØ KG 5180.00 KG OUR CEMENT SUPPLIER HAS CERTIFIED THAT 880 THE CEMENT COMPUES WITH A.S.T.M. SPECIFICATIONS OF THE OREGON DEPARTMENT OF TRANSPORTATION. THE PROPORTION OF ALL . 08 KE O. 6% C. /W 737.84 KG 图不同 20、稳保 MATERIALS ARE IN ACCORDANCE WITH THE MIX Q1. 121% 2662.57 KG CMT DESIGNS FOR THE PROJECT. VX **3. 0%** 1774. B1 ML ROSS ISLAND SAND & GRAVEL. 記憶園 C. OX 7097、25 内. 138,491 (350AL) MAX ADD WAT (13) TEMPER WATER "OOL. WAT/CEM RATIO = 17 - 4 4



MAT/CEM RATIO m

B. 44

ROSS ISLAND SAND AND GHAVEL CU.

4315 S.E. MoLOUGHLIN BLVD: PORTLAND, OREGON 97202 OFFICE 239-5504 PORTLAND 239-5500 VANCOUVER 694-1534

SJECT ID. CUSTOMER NO. JOB NO. DATE LD TO 09:54GM BEDFORD COMSTRUCTION TICKET NO. a ~ 343749 SB20 WE PORTLAND MWY TIME WANTED 生的非常的科例 PURTLAND, OREGON TRUCK NO. 0.50 $\mathbb{C}\mathbb{R}$ 97296 DRIVER CATION/DIRECTION 6 900 N EDGEMATER ST BALBH BURNS OSE (美国等思路) FOOT INGS TERMS RMAIDTH AMERICAT ENVIRONMENTAL FEE INE LOAD OT TOTAL OTY PRICE DESCRIPTION AMOUNT ABOAR TOWN ON THE PARTY OF THE WAY WAS PRINTED TO EMBB . 8 Ersh Bar ABAKSMIN SOUNE 3/4, NIX M/ULS 27.0 一号。的键位) 1. OOFER FUEL SURCHANGE - THIS DELIVERY UMP LOAD NO. OTY, ORDER SSEN TOTAL SALES TAX 20. TOTAL in O J. 44 12 * CAUTION ANT_ CIME CIAD BOL NO... EXCESS LINLOADING MATER ADDED RIVED / FINISH TIME BY CUSTOMER MAY CAUSE EYE OR SKIN INJUR _.UNLOAD _ALLOWANCE ____ WASHINGTON MILES CONTAINS PORTLAND CEMENT / SIGNING BELOV , YOU ACKNOWLE EIPT OF THE PRODUCTS IDNINTIFIED If any mixture gets into the eye. flush immediately und see a doctor if any mixture gets onto the ekin. BOVE, AND AGRE TO THE SALE TE THE REVERSE SIDE. NOT RESPONSIBLE FOR DAMAGES ON DELIVERY INSIDE DURB LINE wash promotive th water. FORWED BY DELIVERY TICKET / CUSTOMER Keep out of reach of Childre I HEREBY CERTIFY THAT THE AGGREGATE Met. USED IN THIS CONCRETE ARE REPRESENTED 8 MULTE ! 件如告权政主 SAN PLES TESTED AND APPROVED FOR TH 1., 400 7393,58 KG 3/4 OREGON DEPARTMENT OF TRANSPORTATION क्ष्म क्ष्म क्ष्म OUF CEMENT SUPPLIER HAS CERTIFIED THE 860 5343, 29 86 THE CEMENT COMPLIES WITH A S.T.M. SPECIF CATIONS OF THE OREGON DEF-RATMENT C. TRANSPORTATION. THE PROPORTION OF AIR , 90 K6 C/4 22 VI 692,18 KG R/W 创了处。 MATERIALS ARE IN ACCORDANCE WITH THE M CMT VI. OT 2673, 91 KG DESIGNS FOR THE PROJECT. UN A. O. 1774.31 ML ROUS ISLAND SAND & GRAVEL SON 10.0 7007, 25 ML MAX ADD WAT .24.9H. (33061) TEMPER JATER · Other



WAT/CEM MATIO ·

13. 4.4

ROSS ISLAND SAND AND GRAVEL CO.

4315 S.E. MoLOUGHLIN BLVD. PORTLAND, OREGON 97202 OFFICE 239-5504 DISPATCH OFFICE PORTLAND 239-5500 VANCOUVER 694-1534

DJEOT ID. GUSTOMER NO. JOB NO. DATE ILD TO BEDFORD COMSTRUCTION AMARC: CO TICKET NO. SARA NE PORTLAND HAY 94 - 343744 TIME WANTED PORTLAND. DREGON 主角。如即向阿尔 TRUCK NO. [1] F.F. 악습 97236 CATION/DIRECTION AGOD N EDGEWATER ST DRIVER DARYL BENEL! USE CORECELY FOOT INGS TERMS EXPLOTE INSTIBT ME ENVIRONMENTAL FEE TOTAL QTY LOAD QTY DESCRIPTION PRICE AMOUNT 6.8863 13. 76M3 MBURBOALD BAMPA BJAT MIX W/AIR 9.000 18.00CK MIATH MIN "AVE ARMED BISCHURH 1. WAFER FUEL SURCHARGE - THES DELIVERY. OTY ORDERED NOTES: LOAD NO. SC 36 SALES TAX 20. Sal 4. 17 TOTAL [T []] START TIME * CAUTION EXULES THE UTUNE UNLOAD. CIN. JOB MATER ADDED 🗓 🐎 ЕНЧІВН BY CUSTOMER TIME MAY CAUSE EYE OR SKIN INJURY JUNIO D ALOWANCE TIME. WARRINGTON BILLED CONTAINS POFTLAND DEMENT If any mixture gets into the eye, SIGNING BELOW, YOU ACKNOWLEDGE RECEIPT OF THE PRODUCTS IDENTIFIED faust immediately and see a doctor OVE, AND AGREE TO THE SALE TERMS ON THE REVERSE SIDE. If any mixture gets onto the skin, wash promptly with water. NOT RESPONSIBLE FOR DAMAGES ON DELIVERY INSIDE CURB LINE DELIVERY TICKET / CUSTOMER KEEP OUT OF REACH OF CHILDREN SIGN HERE I HEREBY CERTIFY THAT THE AGGREGATES Molst USED IN THIS CONCRETE ARE REPRESENTED BY Actual Mat. SAMPLES TESTED AND APPROVED FOR THE X 2 4 1. 22% 7438,88 86 OREGON DEPARTMENT OF TRANSPORTATION. OUR CEMENT SUPPLIER HAS CERTIFIED THAT THE CEMENT COMPLIES WITH A.S.T.M. SPECIFI-5252,57 KG 990 4, 9% B. B% 174 . 00 KG CATIONS OF THE OREGON DEPARTMENT OF TRANSPORTATION, THE PROPORTION OF ALL 9.0% 760.22 KG 돌기대 MATERIALS ARE IN ACCORDANCE WITH THE MIX 心。強先 2676.18 KB DESIGNS FOR THE PROJECT. 1774, 31 ML W 01% 財政 ROSS ISLAND SAND & GRAVEL. 7097.25 ML 自由自 生物。砂龙 MAX ADD WAT 132,491. (35個為仁) 267 TEMPER WITER . OGL

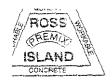


ROSS ISLAND SAND AND GRAVEL CO.

4315 S.E. McLOUGHLIN BLVD. PORTLAND, OREGON 97202 OFFICE 239-5504 DISPATCH OFFICE PORTLAND 239-5500 VANCOUVER 694-153-

CUSTÓMER NO. JOB NO. QUECT ID. MOTOLE BBIAGH RELECTED CONSTRUCTION TICKET NO. A - 34374E SEED NE PORTLAND HUY TIME WANTED 例9:36科学 PORTLAND, DREEDIN TRUCK NO. ... 88 97206 OR DRIVER CATION/DIRECTION STOR N EDGEWATER ST CHARY HILSON USE . (135530) FOOTINGS TERMS SALIMIN INSTITUT ENVIRONMENTAL FEE)NE PRICE TOTAL QTY DESCRIPTION AMOUNT LOAD QTY A. BAMB S. Banc MEVRENIE ENERGY BY MIX WYOLF MBURBGIT BOOKPA 3/4" MIX W/ATR 9.000 9. DOCK FULL (ROHARGE - THATS DELIVERY ... 1. NOTEL SUB TOTAL SALES TAX GTY, ORDERED NOTES: LOAD NO. 4. 19 28,784 TOTAL START TIME * CAUTION 4 N JOB WATER ADDED FINISH. 2 UNLOW). BY CUSTOMER TME MAY CAUSE BYE OR SKIN INJUR RIVED CT . LOWANCE ... TIME. WASHINGTON MILES CONTAIN ! POP /LAND CEMENT if any mixture gets into the eye, I SIGNING BELOW, YOU ARKNOWLEDGE RECEIPT OF THE PARADUCTS IDENTIFIED lists immedian by and see a doctor.

If any minimum to the skin,
wash promptly with water. HOVE, AND AGREE TO THE SALE TERMS ON THE RELITASE SIDE. NOT RESPONSIBLE FOR DAMAGES ON DELIVERY INCIDE GURE LINE - !-ELIVERY TICKET / CUSTONIER KEEP OUT " FEACH OF CHILDRE CEIVED BY THERE L HEREBY CERTIFY THAT THE AGGREGATE USED IN THIS CONCRETE AND REPRESENTED E (बंक : ,,) 销融制。 SAMPLES TESTED AND APPROVED FOR THORSE OR DEPARTMENT OF TRANSPORTATION 72:52:00 10 J. J. S. ... 9% - A 6 34 5150% 50 16 OUR CEMENT SUPPLIER HAS CERTIFIED THA 580 THE CEMENT COMPLIES WITH A.S.T.M. SPECIF CATIONS OF THE OREGON DEPARTMENT C. TRANSPORTATION. THE LINE ORTION OF ALL .00 88 17/8 Mr. 21% 707,UA RE 阿子镇 101 n (1) 15% Etalka - F (1) MATERIALS ARE IN ACCORDANCE WITH THE M CHI 18 BUS DESIGNS FOR THE PROJECT. 1117 9 G 👈 4774, 31 Mil. 0.0% 7007, -5 4 ROSS ISLAND IS IND & GRAVILL. COM MAX ADD WAT 1.3.496 4 BE JELL $_{n}\left(\mathcal{C},\mathcal{S}\right) _{m}$ TEMPER GATER -WAT/CEM RATIO m M. wa



WATZCEM RATIO =

0.44

ROSS ISLAND SAND AND GRAVEL CO. 4315 S.E. MOLDUGHLIN BLVD.

4315 S.E. McLOUGHLIN BLVD. PORTLAND, OREGON 97202 OFFICE 239-5504 PORTLAND 239-5500 VANCOUVER 694-1534

DATE DUECT ID. CUSTOMER NO. JOB NO. LD TO BEDFORD CONSTRUCTION **静智士54名图** TICKET NO SARO NE PORTLAND HWY A - 343749 TIME WANTED PORTLAND, OREGON TO:BUGM TRUCK NO. CHE 9720a 813 DRIVER CATION/DIRECTION S900 M EDGEWATER ST RALPH BURNS USE (135530) FOOT I MGS TERMS SK/10TH /NET1ST ENVIRONMENTAL FEE MYE LOAD OT TOTAL OTY DESCRIPTION PRICE TRUOMA 20.64M3 州 内门地 (原) 一切機 铁马达达 超 经人工路线 5. BAM3 光光演读 下的人 化水果苯二乙烷 9.000 -27.000CY 22 | Last 28 1 5 3 E 1. GOFFER St 16 15 15 UMP LOAD NO. OTY, ORDERED IN SUF 每. 0 2W. 64 TOTAL F4. W START * CAUTION ANT. TINI OAD RIVEN FINISH MAY CAUSE EYE OR SKIN INJUR UNLOAD CONTAINS PC RYLAND CEMENT If any mixture gets into the eve, flush immediately and see a doctor if any mixture gets onto the skin, wash proniedly with water. Y SIGNING BELOW, YOU ACKNOWLEDGE RECEIPT OF THE PRODUCTS IDENTIFIED BOVE AND AGREE TO THE SALE TERMS ON THE REVERSE SIDE. NOT RESPONSIBLE FOR DAMAGES ON DELIVERY INSIDE -47 ECRIVED BY DELIVERY TICKET / CUSTOMER KEEP OUT OF REACH OF CHILDRI SIGN HERE 3 H DERTIFY THAT THE AGGREGATE LISE 3 CONCRETE ARE REPRESENTED (Mat. 国域Lat Actual ESTED AND APPROVED FOR THE SAL 412 1. 10% 7393, 58 KB OR 5. 5% SSD 5343, 29 KG ΟU IT SUPPLIES HAS CERTIFIED TH THE I COMPLIES WITH A.S.T.M. SPECI CZW CHE THE . OO KE CA" THE OBESON DEPARTMENT (R/W 图。因为 592, 18 KB TRA ATION. THE PROPORTION OF A ARE IN ACCORDANCE WITH THE M MA 0.0% 2673, 91 KB DES OR THE PROJECT VE 0,0% 1774.31 ML RO: 32 - D SAND & GRAVEL 温泉村 0. 0% 7097, 25 ML MAX ADD WAT 124,91L (330AL) TEMPER WATER 1000 . OUL



ROSS ISLAND SANU AND WHAVEL LU.

4315 S.E. McLOUGHLIN BLVD. PORTLAND, OREGON 97202 OFFICE 239-5504 PORTLAND 239-5500 VANCOUVER 694-1534

CUSTOMER NO. JOS NO. DATE DIECT ID. ILD TO 189:28AB BEDFORD CONSTRUCTION TICKET NO. 和 - 343744 SARA NE PORTLAND HWY TIME WANTED MANNSTYL PORTLAND, OREGON TRUCK NO. CHR 的复数路 9171 DRIVER ICATION/DIRECTION 6900 N EDGENATER ST DARYL BENFIT USE FOOTINGS (135530) TERMS 28/10TH /NET15T ENVIRONMENTAL FEE INE DESCRIPTION LOAD OTY TOTAL QTY PRICE AMOUNT 6. 38M3 13. 76时3 Y 12 (13) 11 (2) (新) 省 (4) 18.00CY The House I'm The Real 4 155 8 T. COC \$ 15 Kill Em 1548 15 1,57 Tip 1 1. DOFEE 1 50 OTY, ORDERED ! LIMP LOAD NO. SUE TOTAL SALES 20,54 2 4 . 10 TOTAL 54. W. START * CAUTION _TMA_ UNEOAD **♦**÷-FINISH RRIVED G MAY CAUSE E 'E OR SKIN INJUF DB√ ± __ UNLOAD. CONTAINS PHRTLAND CEMENT it any mixture gets into the eyo, frush immediately and see a coccer. Y SIGNING BELOW, YOU ACKNOWLEDGE REVENEY OF THE PROGROUPS WERE FIRE BOVE, AND AGREE TO THE SALE TERMS OF THE REVERSE SIDE. If any mixture gets onto the skip, wash proceptly with water. NOT RESPONSIBLE FOR DAMAGES ON DELIVERY INSIDE IECEIVED BY -DELIVERY TICKET / CUSTOMER KEEP OUT OF LEACH OF CHILDR SIGN HERE CERTIFY THAT I'VE AGGREGATI Moist us S CONCRETE ARE REPRESENTED (图画 机 Act ual ESTED AND APPROVED FOR THE SPARTMENT OF TRANSPORTATION S,A 7438.88 KB 3 15 1.01% OR 4.0% Sasa, ST No 390 OU VI SUPPLIER HAS CERTIFIED TH TH T COMPLIES WITH A.S.T.M. SPECI CZN Q. 60% .00 KG F THE OPEGON DEPARTMENT ATTOM THE PROPORTION OF A CA RZW 0. 25 760.22 KG TR ARE IN ACCORDANCE WITH THE A MÁ CMI 10% 2676.18 KG OE. IR THE PROJECT. 質り M. 19% 1774.31 ML RO FLI - DISAND & HRAVEL **密的**M 边。沧紫 7097,25 ML EV MAX ADD WAT (32,49L (Here Disease 35GAL) , Mill TEMPER WATER W. WAT/CEM RATIO == 6. 44



ROSS ISLAND SAND & GRAVEL CO.

ROSS ISLAND MIX NUMBER

MSVR3010

Strength Compressive: 30,000 Mpa

4/12/2005

Contractor :

WILDER CONSTRUCTION

Project :-

MCCOPMACK BAYTER

Construction Type : GENERAL - FOOTINGS - BLAB ON GENADE

Placement :

CHUTH OR PUMP

Weights per Cubic Meter (Satu	ırated, Su	rface-Dry)	
	Quantity	Density	Yield, m'
Type I/II Coment, kg	390.0	3.150	0.124
Water, liter	173.24	1.000	0.173
astm #67 Ross Island 3/4", kg	1,065.1	2.760	0.383
ASTM CHI ROSS ISLAND SAND, kg	728.7	2.720	0.268
ASTM 0-494 Type A Water Reducer, liter	1.017	2.100	0.001
ASTM C-260 Air Entraining Agent (DOSE VARIES	0.254	1.200	0.000
Total Air, &	5.0 ±	1.5	0.050
		TOTAL	5000

Water/Cemont Ratio, kgs/kg	0.44
Slump, High, mm	127,0
Low, men	76.2
Concrete Unit Weight, kg/m3	2,358.7
Yield, %	100.0

Exposure Condition : Moderate exposure

Prepared by :

ROSS ISAIND TECHNICAL SERVICES

4/12/2005

Field Communications and Change Orders

C-1 002688.OY21.29.03

ecology and environment, inc. International Specialists in the Environment

333 Southwest Fifth Avenue, Suite 608 Portland, Oregon 97204 Tel: (503) 248-5600, Fax: (503) 248-5577

Support Facility Modifications McCormick & Baxter Creosoting Co. Site

EE-WC-01

To:

Pat Turina

Wilder Construction,

From: Andrew Murphy

Oversight Supervisor

Ecology and Environment, Inc.

Cc:

Kevin Parrett, Project Manager, DEQ

Steve Campbell, Contract Manager, DEO

Date:

March 29, 2005

Re: Lay out of the column bases and details for the new shop foundation

There appears to be a problem with the column bases. Assuming the garage doors are 10' wide, two of the column bases overlap one another (A533 appears to overlap A394). This would be at the garage door end, right corner standing outside and looking at the garage doors. The Engineer noted that the garage door layout is not symmetrical about the centerline. Can you contact the manufacturer and resolve the issue?

Furthermore, Details A611 and A612 show the base plate at the front (not garage door) end extending 1/8" beyond the wall. Will you please confirm this?

Andrew Murphy

Received by:

Date: 3/29/05

Date: 3/23/05

ecology and environment, inc. International Specialists in the Environment

333 Southwest Fifth Avenue, Suite 608 Portland, Oregon 97204 Tel: (503) 248-5600, Fax: (503) 248-5577

Support Facility Modifications McCormick & Baxter Creosoting Co. Site

EE-WC-02

To:

Pat Turina

Wilder Construction.

From: Andrew Murphy

Oversight Supervisor

Ecology and Environment, Inc.

Cc:

Kevin Parrett, Project Manager, DEQ

Steve Campbell, Contract Manager, DEQ

Date:

March 29, 2005

Re: Responses to Questions presented during first 10-minute meeting

A number of questions were asked during the first on-site 10-minute meeting on 3/28/05 by Wilder Construction's site superintendent Don Davis. In the future it would be in the best interest of the involved parties to convey questions of contract requirements and scope in writing. In an effort to minimize the possible impacts to the project E & E is documenting the questions herein. The following are E & E's interpretations of the questions posed and responses:

- 1. Where is the designated location for materials that are currently stockpiled on the asphalt? Stockpile the materials as close as possible to the Biobags and fencing already stockpiled to the west of the asphalt. Also stockpile the woody debris and removed vegetation to the northwest of the asphalt area as close as practical.
- 2. Which trees are to be removed?

Remove the trees that would inhibit work progression or are within the new paved area. It appears as though most of the trees to the west of the asphalt will be in the way of construction and should be removed.

- 3. Who will be relocating the backflow control valves (check valves)? The specifications regarding relocation of the back-flow control valve are within Section 02520 subsection 3.3 page 02520-7 which states:
 - A. The Subcontractor shall perform the relocation of the existing back-flow control valve to a location indicated on the drawings.

4. The bury depth for the waterline does not appear to be deep enough for code requirements. Is this correct?

The water line shall be installed as shown on the drawings. The pipe will have an additional two feet of material or more upon completion of the Upland Cap planned for construction later this year.

- 5. What is the compaction requirement for the Select Backfill?

 The specifications regarding the Select Backfill are within Section 02200 1.5 Quality Assurance, C. Select Backfill:
 - 1. Tests and analysis of fill materials will be performed in accordance with ANSI/ASTM D1577, ASTM D2922, and ASTM D2487.

Refer to Section 02200 1.3 REFERENCES G., F., and E for referenced ASTMs. ASTM D1577 is the Moisture-Density Relations of Soils and Soil-Aggregate Mixture Using 10 pound Rammer and 18-inch Drop, which establishes the modified proctor for compaction density. According to Section 02200, subsection 3.4 COMPACTION:

D. Begin compaction of each layer immediately after the material is spread and continue until a density of not less than 95% of maximum dry density has been achieved...

Andrew Murphy

Date:

3/29/05

Received by:

Date: 3/38 105

ecology and environment, inc. International Specialists in the Environment

333 Southwest Fifth Avenue, Suite 608 Portland, Oregon 97204 Tel: (503) 248-5600, Fax: (503) 248-5577

Support Facility Modifications McCormick & Baxter Creosoting Co. Site

EE-WC-03

To:

Pat Turina

Wilder Construction,

From: Andrew Murphy

Oversight Supervisor

Ecology and Environment, Inc.

Cc:

Kevin Parrett, Project Manager, DEQ

Steve Campbell, Contract Manager, DEQ

Date:

March 31, 2005

Re: Distribution of Foundation Footing Details

Please find attached to this field memo eight pages entitled Shop Building Foundations.

Andrew Murphy

Date: 3/31/05

Received by:

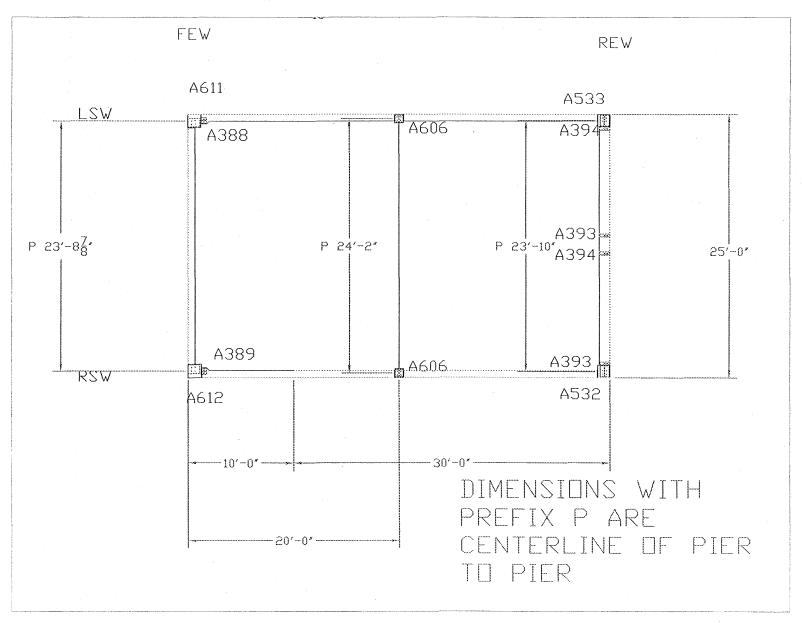
Date: 3/31/05

McCORMICK AND BAXTER SUPPORT FACILITY MODIFICATIONS SHOP BUILDING FOUNDATION

CONCRETE NOTES

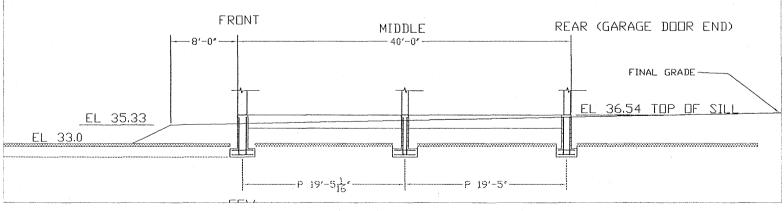
- 1. All steel reinforcement grade 60
- 2. Clearances:
 - a. Concrete placed on soil: 3"
 - b. Concrete with backfill: 1-1/2"
 - c. Interior concrete: 3/4"
 - d. Stems of piers: 1-1/2"
- 3. Horizontal steel reinforcement in pier stems: #3 stirrups @ 6
- 4. All reinforcement #4 unless noted otherwise.
- 5. Chamfer ½" at exposed edges of piers.
- 6. Chamfer at other exposed edges ½" or 1-1/2" (At Subcontractor's option, but consistency is required).

LAYOUT MUST BE CHECKED AGAINST BUILDING MANUFACTURER COLUMN LAYOUTS.

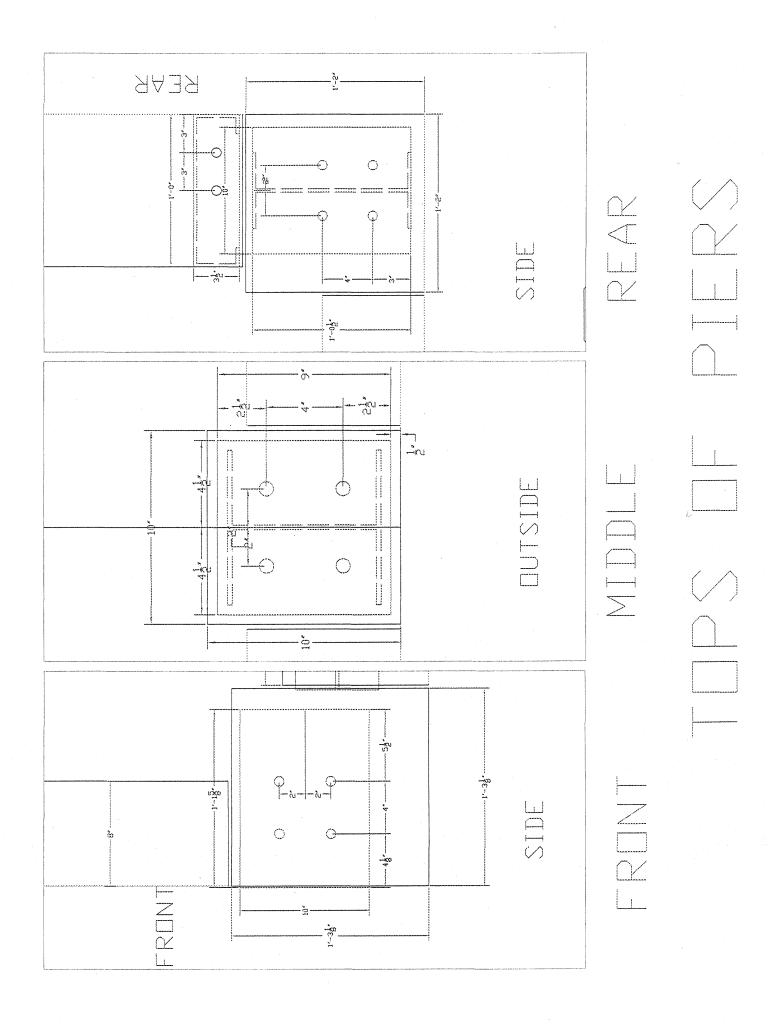


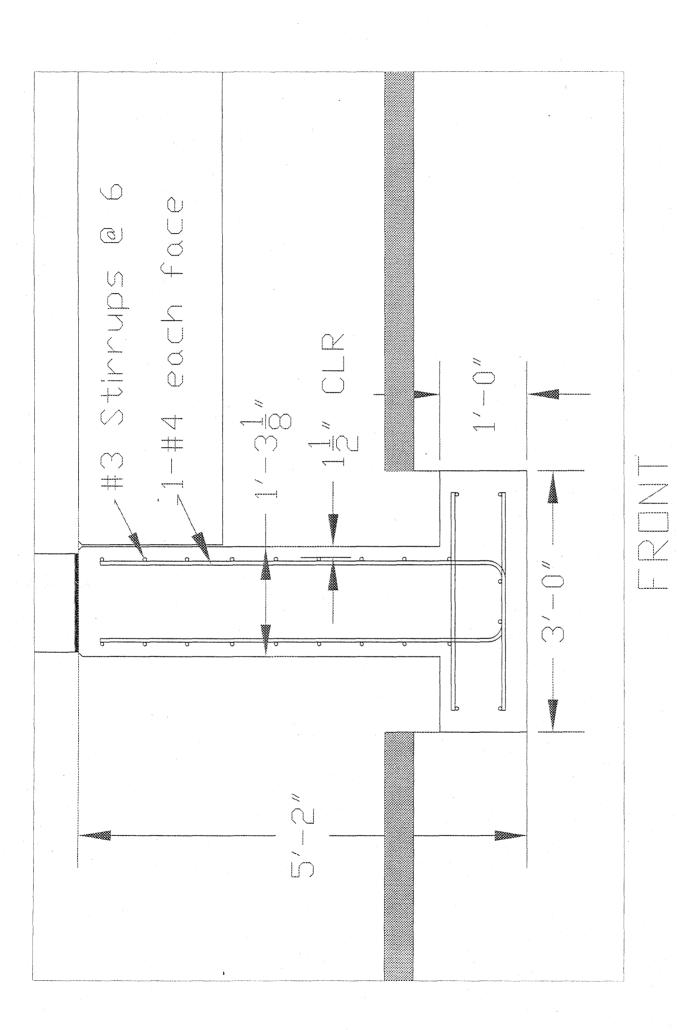
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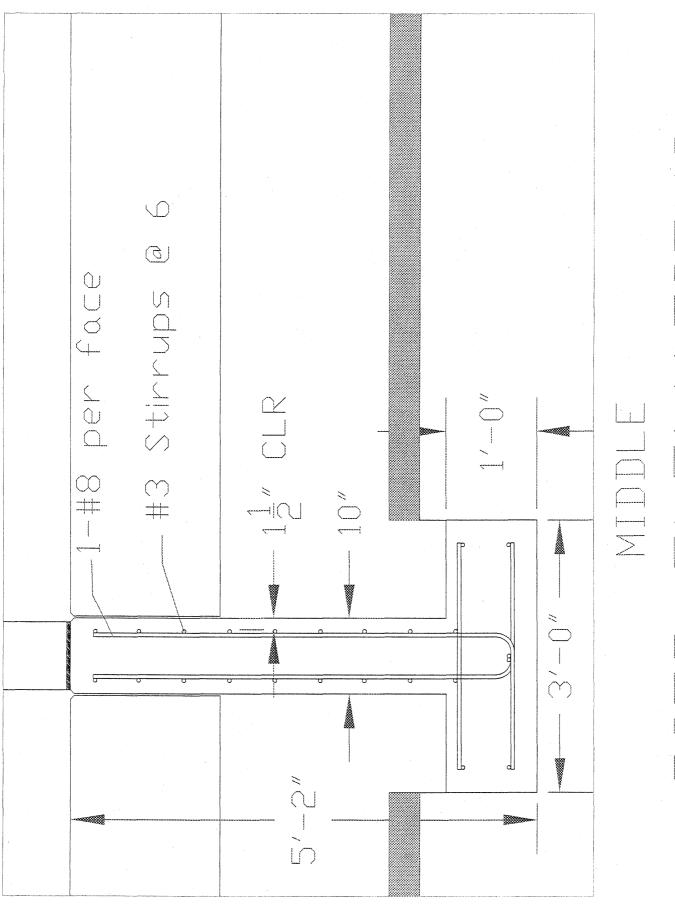
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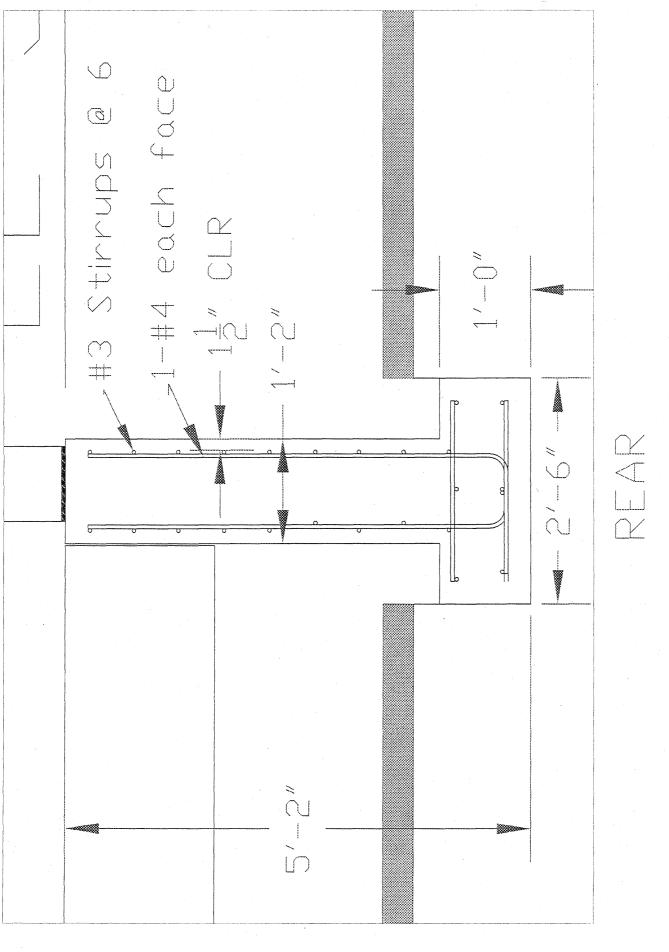


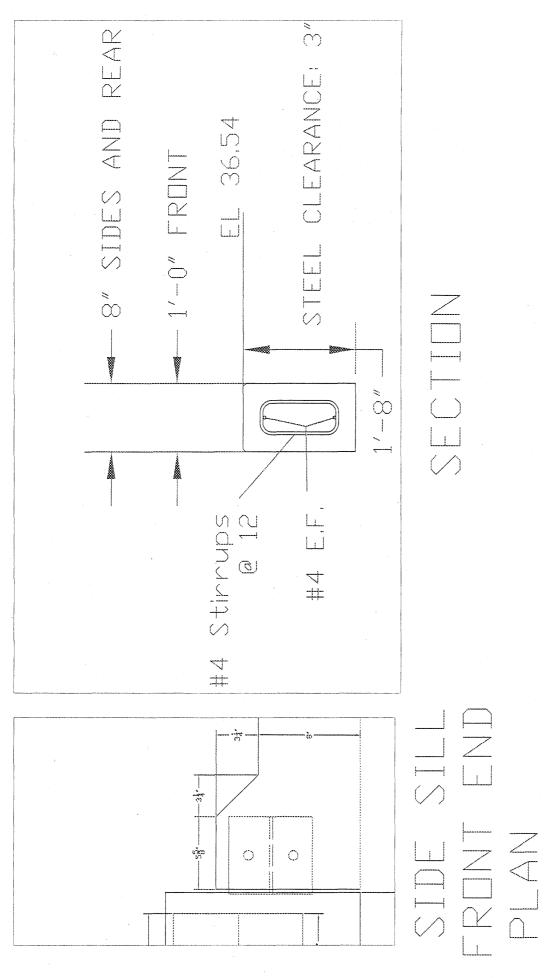
FOUNDATION PROFILE













ecology and environment, inc. International Specialists in the Environment

333 Southwest Fifth Avenue, Suite 608 Portland, Oregon 97204 Tel: (503) 248-5600, Fax: (503) 248-5577

Support Facility Modifications McCormick & Baxter Creosoting Co. Site

EE-WC-04

To:

Pat Turina

Wilder Construction.

From: Andrew Murphy

Oversight Supervisor

Ecology and Environment, Inc.

Cc:

Kevin Parrett, Project Manager, DEQ

Steve Campbell, Contract Manager, DEO

Date:

March 31, 2005

Re: Request for cost proposal for electrical supply modifications

Please provide E & E with a proposal, itemized separately, for the two items listed below. If accepted by E & E, these will be included in a deductive Change Order.

Item 1:

Provide PVC conduit (PVC-40) instead of Rigid Steel Conduit (RGS) and Plastic-Coated RGS from the meter main to the outside breaker box and beyond to the new shop building and connections to trailers. The work shall be subject to the following:

- All work shall be in accordance with the NEC.
- Locator tape shall be placed above all buried conduit.
- Conduit shall be placed below areas to be paved.
- As built drawings prepared by the Subcontractor shall show an accurate location of all subsurface conduit. The locations shall be determined either by topographic survey techniques or by swing ties from permanent features.
- All stub-ups and the short horizontal length between the meter main and the new paying shall be RGS (not plastic coated).

Item 2:

In the new Shop Building, all stub-ups and all conduit within 4 vertical feet of the final floor grade shall be RGS (not plastic coated). Conduit higher than 4 feet above the floor may be EMT.

Andrew Murphy

Date:

Received by:

Date:



ecology and environment, inc. International Specialists in the Environment

333 Southwest Fifth Avenue, Suite 608 Portland, Oregon 97204

Tel: (503) 248-5600, Fax: (503) 248-5577

Support Facility Modifications McCormick & Baxter Creosoting Co. Site

EE-WC-06

To:

Pat Turina

Wilder Construction.

From: Gregory Jones

Oversight Supervisor

Ecology and Environment, Inc.

Cc:

Kevin Parrett, Project Manager, DEQ Steve Campbell, Contract Manager, DEQ John Montgomery, Project Manager, E&E

Alexander Whitman, Project Engineer, E&E

Date:

/© June み, 2005

Re: Directive to fill the abandoned septic tank encountered during Support Facility Modification activities.

Wilder Construction is here by directed to fill the abandoned septic tank encountered during the Support Facility Modification activities on 6/8/05 with sand and to include its location on asbuilt drawings. This operation was approved by Kevin Parrett, the DEQ Project Manager on 6/8/05.

6-10-05

Received by:

Date:



ecology and environment, inc.

International Specialists in the Environment

333 Southwest Fifth Avenue, Suite 608 Portland, Oregon 97204

Tel: (503) 248-5600, Fax: (503) 248-5577

Support Facility Modifications McCormick & Baxter Creosoting Co. Site

EE-WC-07

To:

Pat Turina

Wilder Construction,

From: Gregory Jones

Oversight Supervisor

Ecology and Environment, Inc.

Cc:

Kevin Parrett, Project Manager, DEQ Steve Campbell, Contract Manager, DEQ John Montgomery, Project Manager, E&E Alexander Whitman, Project Engineer, E&E

Date:

June 10, 2005

Re: Directive for the use of 34" minus stone on Support Facility Pad instead of paving

Wilder Construction is directed to forgo the paving of the Support Facility Pad. The subcontract will be credited for the amount indicated on Wilders Construction breakdown of prices. Wilder shall perform grading of the Support Area Pad under the Upland Cap contract. Wilder shall install the chain link fence per the subcontract as soon as possible. Wilder also shall install the pole mounted luminary as soon as it becomes available.

Wilder shall place 3/4" minus at the garage door of the new shop building to substitute for the asphalt ramp shown on the drawings. The 3/4" minus shall be placed at the access ramp to the hazardous waste storage area to substitute for the asphalt ramp indicated on the drawings.

Received by:

Date:

McCORMICK and BAXTER SUPERFUND SITE SUPPORT FACILITY MODIFICATIONS SUBCONTRACT BETWEEN E & E and WILDER CONSTRUCTION CHANGE ORDER NO. 1

The Contract Documents are hereby changed as follows.

1. Asphalt Paving

Asphalt Paving (Section 02510 of Specifications) is deleted from the subcontract. Periodic and final grading of the pad shall be performed under the Upland Cap contract.

2. Chain-Link Fence

Installation of new chain-link fence and reinstallation of existing chain-link fence (Section 02821 of Specifications) is deleted from the subcontract. The work will be performed under the Upland Cap contract.

3. Waste Holding Tank.

The existing waste holding tank shall be decontaminated with bleach and disposed of. A new tank, suitable for above ground storage of septic waste and capable of fitting beneath a trailer shall be furnished and connected.

4. Electrical Conduit.

In lieu of the plastic-coated Rigid Steel Conduit (RGS) specified in Section 16105, provide schedule 40 PVC conduit beneath the access road and pad. Additionally provide EMT conduit in the new shop building at elevations 4 feet and higher above the finished floor.

5. Garage Doors.

Prime-painted steel garage doors may be substituted for the corrosion resisting steel doors specified in Section 13120.

6. Lightning Protection.

Delete the requirement to furnish air terminals and cabling (Section 16601). The proximity of the luminaire obviates the need for air terminals.

7. Contract Price.

In accordance with the attached itemized list, the Contract Not-To-Exceed price is changed from \$408,000.00 to \$336,967.38.

McCORMICK and BAXTER SUPPORT AREA MODIFICATIONS CHANGE ORDER NO. 1

0001 E 01 WORK 01 // KINGE		
	Price	Price
Item Description	Increase	Decrease
Delete requirement to pave with asphalt		-\$42,000.00
2 Delete requirement to provide chain-link fence		-\$25,000.00
Provide New Sanitary Holding Tank beneath trailer with toilet.		
Chlorinate old holding tank and dispose.	\$467.38	
Use PVC Conduit and bury conduit beneath access road. Use FMT in	•	
new shop at 4' and higher above Finished Floor elevation.		-\$3,500.00
Provide primed non-corrosion resisting steel garage doors in lieu of		4 0,000
5 CRES doors.		-\$1,000.00
Increase in Reinforced Concrete Volume from 56 CY to 58.40 CY at the		* *,**********************************
⁶ Bid Unit Price of \$500.00/CY	\$1,200.00	
7 Delete Air Terminals and cabling	Ψ1,200.00	-\$1,200.00
Basis Notes		Ψ1,200.00
(1) Based on Schedule of Values submitted by Wilder at start of job.		
(2) Quote Provided by Wilder in e-mail. Wilder quote in e-mail 6/24/05		
referencing www.quadel-i-i.com. Phone quote price confirmed \$327.71		
plus \$71.76 freight to Portland.		
(3) Wilder quote in e-mail 4/8/05		
· ·		
(4) Wilder Offer in e-mail (5) Wilder Offer Verbal		
(3) Wilder Offer Verbal		<u> </u>
		-\$72,700.00
Net Change to Contract	-\$71,032.62	
Contract Amount Before Change Order No. 1	\$408,000.00	
Final Contract Amount	\$336,967.38	

Daily Field Reports

D-1 002688.OY21.29.03

ecolo	gy and o	enviroi	ıment, i	inc.			DAILY FIEL	D REPORT NO. : 03/29/05	: 1 Day:	Tuesday
	roject Title: Project No.:			Facility Modific	eations			Client:	ODEQ	
Weat	her			Tem	perature			Site Cond	itions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X			Morning: Midday: Afternoon:	45 55 55	°F °F °F		Clean: Dusty: Muddy: Other:	x	
CONTRACTO	R(S)/SUBCO	NTRACTO	OR(S)							
Wilder Construct Brothers Concre David Evans an Locates Down U	ete Cutting d Associates	ractor	1 1 2 1	Survey and con	Remarks Contractor g asphalt around new building and containment area. y and construction staking. ground utility locating and marking					
VISITORS										
Time In	Time Out		Name			Repre	esenting		Remarks	
9:30 14:13	12:00 9:45 14:18		Richard Heyr Cal Holglu Ken Carlso	nd	Accord Construction Photos of the existing shop PGE Inspection of transformers. Bedford Construction Site visit by contractor for or				nsformers.	
MAJOR EQUI Trackhoe-Hitac John Deere back	hi 135 Zaxis				MATER	IALS DEI	LIVERED TO SITE			
NONCONFOR	MANCES NO	OTED						WHO WAS NO	TIFIED?	
SAFETY CON	CERNS NOT	ED						WHO WAS NO	OTIFIED?	
WORK COME 1. DEA surveye		he construct	ion alignmen	and features (b	ouilding foo	otprint and	containment area fo	otprint).		
LDU marked Wilder remove northwest of the previously stock	the locations yed bollards, to contamination apiled Bio-bag crete Cutting r	of the under rees, and bronger reduction s and fencin	rground utiliti ush within the zone off the a ug just to the v	es within the su support area an sphalt. Pallets a vest of the conta	apport area and along the and sand ba amination	and the lo	cation of the water su oad. Trees and brush loved from the constr	upply line. were stockpiled in ruction area to a de	esignated loc	ation near
NOTES/ISSUE	CS									
None										
Prepared By:	E & E Field S	Staff								

M							DAILY F	IELD F	REPORT NO.:	2	
&J ecolo	gy and o	environ	ıment, i	nc.			Г	Date:	03/30/05	Day:_	Wednesday
	⇒ v		,								
	Project Title: Project No.:			facility Modifi	cations				Client:	ODEQ	
Weat	ther	•		Ten	nperature				Site Conditi	ions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X X	- - - - -		Morning: Midday: Afternoon:	55	°F °F °F			Clean: Dusty: Muddy: Other:		
CONTRACTO	OR(S)/SUBCO	NTRACTO	DR(S)								
	ctor/Subcontr		Crew Size				Rem	arks			
Wilder Constru	ction		2	Prime Contrac	ctor						
· warmana											
VISITORS			N.Y.			- D				n 1	
Time In	Time Out		Name				esenting			Remarks	
10:00	10:15		Ken Carlso				onstruction		ite visit with sup		
10:00 12:00	10:15 14:20		Todd Adai Mike Fey	r	1		Construction onstruction		ite visit with sup eekly Meeting	erintendent	
12.00	11.20		wince i cy		1	Wilder C	onstruction	1	certy weeting		
MAJOR EQUI	PMENT CUI	RRENTLY	ON SITE		MATER	IALS DEI	IVERED TO S	ITE			
Trackhoe-Hitac											
John Deere back	khoe 310E wit	h fork attach	ments								
NONCONFOR	MANGEG NA	OTED						l xx	TIO WAS NOT	CIELEDO	
NONCONFOR	MANCES NO	OTED						W	VHO WAS NOT	IFIED?	
SAFETY CON	CEDNS NOT	TED.						V	YHO WAS NOT	CIEIED2	
SAFETT CON	CERNS NOT	ED						**	THO WAS NOT	IFIED:	
WORK COMI	DIETED										
		ued clearing	and grubbing	today along th	ne west and	1 southwest	edge of the new	suppor	t facility naveme	ent area	
							ump for the haza				
							itated the meetin				
NOTES/ISSUE		4 4 6	,		141.1 4		1 5 6 5 11 :	.1 *****	. 1 111 2	1	1 3
							d. E & E called describing the si				e number that is
Prepared By:	E & E Field S	Staff									

P							D REPORT NO.:	,		
ecolo	gy and o	environ	ment, i	inc.		Date	03/31/05	Day:	Thursday	
	roject Title: Project No.:			Facility Modific	eations		Client:	ODEQ		
Weat	her			Tem	perature	_	Site Condit	ions		
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	-		Morning: Midday: Afternoon:	Midday: 65 °F Dusty:					
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
	ctor/Subconti	ractor	Crew Size			Remar	ks			
Wilder Construc	etion		2	Prime Contrac	tor					
			L							
VISITORS										
Time In	Time Out		Name		Re	presenting		Remarks		
MAJOR EQUI	PMENT CUI	RRENTLY O	ON SITE		MATERIALS I	DELIVERED TO SITE	Ε			
Trackhoe-Hitach	ni 135 Zaxis									
John Deere back Plate Compactor	thoe 310E wit	h fork attach	ments							
NONCONFOR		OTED					WHO WAS NO	rififn ₂		
None noted.	MANCESIN	OTED					WIIO WAS NO	HIFIED:		
SAFETY CON	CERNS NOT	TED					WHO WAS NO	TIFIED?		
None noted.										
							•			
WORK COMP										
						neast of the asphalt area ging to the west of the as		een the conta	mination reductio	
2. To allow for t corner of the asp				ew waterline, W	ilder Construction	n moved the connex box	and metal contains	nent located of	on the southeast	
3. Wilder Consti	ruction tempo	rarily moved	the boot was	sh/decon area n	ext to the existing	tire wash. This location	n was chosen to allo	w use of the	existing spigot.	
4. Wilder Consti	ruction utilize	d a plate com	npactor to pre	epare the ground	d surface within th	ne excavations for the sh	nop buiding foundat	ion footings a	and sumps.	
Wilder Construc	ction agreed up	pon the temp	orary locatio	ons for the trailer	rs. It will be to th	e south of their current tockpiled on-site to make	location, which will	allow easy c	connection to the	
NOTES/ISSUE	S									
Wilder Const Wiltel 'call before	truction noted re you dig pho	one number' t	hat is on the	markers after b	eing informed of	the site appear to be we the situation. The perso ill attempt to contact the	n in charge of mark	ers was not a		
Prepared By:	E & E Field	Staff								

ecolo	gy and e	environ	nment, i	nc.			DAILY FIEL Date	D REPORT NO.: 04/01/05	4 	Friday
	roject Title: Project No.:			acility Modifi	cations			Client:	ODEQ	
Weat	her	•		Ten	nperature			Site Condi	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X X			Morning: Midday: Afternoon:	45 65 55	°F °F °F		Clean: Dusty: Muddy: Other:	x x	
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contrac	tor/Subcontr	actor	Crew Size				Remarl	cs		
Wilder Construc	tion		2	Prime Contrac	etor					
VISITORS					1			Г		
Time In	Time Out		Name			Repre	esenting		Remarks	
12:15	13:35		Mike Fey			Wider Co	onstruction	Inspection of exis	sting electrical	-
12:15	13:35		Jim Unfriel (s	* '		Ampre	Electric	Inspection of exis	sting electrical	
12:15	13:35	S	Steve Kenterl	ourg		Ampre	Electric	Inspection of exis	sting electrical	
					1					
MAJOR EQUI		RRENTLY (ON SITE		MATER	IALS DEL	LIVERED TO SITE	2		
Trackhoe-Hitach John Deere back		h fork ottook	manta							
Plate Compactor		ii ioik attacii	inents							
NONCONFOR		OTED			<u> </u>			WHO WAS NO	TIFIFD?	
None noted.	MANCESIN	JIED						WHO WAS NO	HIFIED.	
								L		
SAFETY CON	CERNS NOT	ED						WHO WAS NO	TIFIED?	
None noted.										
								1		
WORK COMP	LETED									
		ed the water s	supply line at	the location of	f the future	connection	n and removed the st	ructure around the	existing backf	low device.
2. In preparation	for connectin	g temporary	power to the	trailers Wilder	r Construct	ion expose	d the buried service	line to the west of t	he decon traile	er and excavated
a trench to the ar	ea where trail	ers will be te	emporarily lo	cated.		_				
NOTES/ISSUE	s									
to modify placer	nent. She req	uested the m	ap in a .pdf f	ormat and wou	ld like it er	mailed to he	re a site map of the re er at Linda.rodgers@ y can work around the	Wiltel.com. Furth	ermore, she w	
Prepared By:	E & E Field S	Staff								

ecolo	gy and o	environment,	inc.		DAILY FIELD	04/04/05	5 Day:	Monday	
	-	McCormick and Baxter 001688.OY14.25	r Sediment Cap			Client:	ODEQ		
Weat	her		Ten	perature		Site Condit	ions		
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	- - - - -	Morning: Midday: Afternoon:	33 °F 55 °F 50 °F		Clean:			
CONTRACTO	R(S)/SUBCO	ONTRACTOR(S)							
	ctor/Subcontr	0.000			Remarks				
Wilder	*.	2	Prime Contrac						
Ampere Electric	ity	3	Wilder's Elect	rical Contractor					
VISITORS	ı	1		1					
Time In	Time Out	Name	;	Represe	nting		Remarks		
8:45	9:06	David Yo	ung	Utility V	/ault	Delivery			
10:00	3:00	Jim Unfr	ied	Ampere Ele	ectricity	Electrician			
10:00	3:00	Rasta K. V	Rasta K. Walid Ampere Electricity Electrician						
10:00	3:00	Steve Cante	erbury	Ampere Ele	ectricity	Electrician			
10:40	11:45	Brad Erlan	dson	Morse I	Bros.	Delivery			
11:28	1:05	Don		PAD Transp	oortation	Move Trailers			
10:24	11:05	Kevin C. Peg		HD For		Delivery			
12:00	12:30	George Lu	ikert	Ecology and E	nvironment	Inspection of mar	ked utilities	(MW-1s)	
		RRENTLY ON SITE		MATERIALS DELIV					
Excavator Hitac				Ductile Iron Pipe, fittii	ngs, gaskets, and lub	orication			
Backhoe John D	eer 310 E			3/4" Gravel Utility Vault					
				Othing vaun					
NONCONFOR	MANCES NO	OTED		1		WHO WAS NOT	TIFIED?		
None noted.									
SAFETY CON	CERNS NOT	TED				WHO WAS NOT	TIFIED?		
None noted.									
WORK COMP	LETED								
		ated to their new tempor	ary location sout	h of the support area ius	at off the asphalt Tr	ailer A the comm	and post wa	is moved just o	
		on trailer, was moved ap	•	**	•				
electricity was re	econnected on	nce trailers were relocate	d. The internet s	atellite was disconnected	d prior to movemen	t and reconnected	after relocat	ion.	
		g the trench for the new d ended at the support ar		ong the east edge of the	property. Excavation	n began at the loc	ation where	the new tie-in	
		the new water line was		ast corner of the suppor	t area.				
		or backfill of the water li				e support area on	the asnhalt		
`	, 0	e new water line was de		*		* *		were also	
		to the trench near the si		uic cage oi ucilcii	carrena, being du	5. The mangs and	.aorivation	510 4150	
NOTES/ISSUE			**						
		med E & E that the mair	supply line is n	ot 6" diameter pipe as ir	dicated on the draw	rings, and may be	10 or 12 inc	hes in diameter	
-		d. Wilder will have to o		* *					

required.

Prepared By: E & E Field Staff

ir .									
P						DAILY FIELI	REPORT NO.:	6	
4						Date:	04/05/05	Day:	Tuesday
ecolo	gy and o	environ	ment, i	nc.					
, n		M.C	1 D 4 6		Madicardan		CII' t	ODEO	
	-			Support Facility	y Modifications		Client:	ODEQ	
E & E !	Project No.:	001688.OY	14.25						
Weat	her			Ten	nperature		Site Conditi	ions	
Clear:		_		Morning:	35 °F		Clean:		
Part Cldy:	X	_		Midday:	50 °F		Dusty:		
Overcast:		_		Afternoon:	50 °F		Muddy:	X	
Rain:		_					Other:		
Fog:		-							
Snow:		=							
Other:		-							
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)						
	ctor/Subcontr		Crew Size			Remarks			
Wilder construc	tion		3	The Prime Co	ntractor				
VISITORS			•	•					
Time In	Time Out		Name		Repres	senting		Remarks	
9:15	9:40		Rod Cochr	an	Wi	ltel	fiber optic locator		
3:00	4:55		Kevin Parre		DI		site walk		
10:40	12:30	G	ary (?) A. De		Phillips	`	alarm system		
MAJOR EQUI	PMFNT CIII	DENTI V	ON SITE		MATERIALS DEL	IVERED TO SITE			
Excavator Hitac		XXEN1D1 V	ONSITE			tamination while wat	er is turned off		
Backhoe John D					water tank for decon	tammation withe wat	cr is turned orr		
Bucknet John B	CCI 510E								
NONCONFOR	MANCES N	OTED			<u>I</u>		WHO WAS NOT	TIFIF D2	
None noted.	MANCESIN	OILD					WIIO WAS NOT	IFIED:	
None noted.									
CAPETY CON	CEDNC NOT	TED					WHO WAS NOT	TIETED9	
None noted.	CERNS NOT	ED					WHO WAS NOT	IFIED;	
None noted.									
WORK COMP	PLETED								
		water line to	oday. The tre	nching was cor	mpleted. The 3/4" (mir	nus) bedding was plac	ed, and most of the	e ductile iro	n pipe was
			-	_	pipe. Joints were left e	, ,			* *
pipe were cover					F F	r	O I		F
					ed the location of the f	iber ontic cable. He	oleo gave permissio	n for the rea	noval of marke
near entrance ga		, Rou Cociii	an, visited un	site and mark	ed the location of the i	ibei optic cable. He a	uso gave permissic	on for the fer	novai oi marke
		nfigured for t	tha tamparar	· location of th	e trailers and is operat	ional in a limitad con	agity Cyrrantly th	a arratam ala	rma ara
					e traners and is operate econ trailer was conne				
and will not be					ccon nanci was conne	cica to the system wi	in a phone fine tha	i was cui lo	anow movemen
		10 10 101000	onto tile	aopiuit.					
NOTES/ISSUE None	i)								
TAOHE									
Prepared By:	E & E Field S	Staff							

ecolog	gy and e	environ	ment, i	nc.			DAILY FIELD Date:	04/06/05	7 Day:_	Wednesday
	roject Title: Project No.:			Support Facility	Modificat	ions		Client:	ODEQ	
Weat	her			Tem	perature			Site Condi	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X			Morning: Midday: Afternoon:	35 50 50	°F °F °F		Clean: Dusty: Muddy: Other:	x	
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contrac	tor/Subcontr	actor	Crew Size				Remarks			
Wilder construct	ion		3	The Prime Cor	ntractor					
VISITORS										
Time In	Time Out		Name			Repres	enting		Remarks	
9:15										
3:00										
10:40										
MAJOR EQUI	PMENT CUI	RENTLY (ON SITE		MATERI	ALS DELI	VERED TO SITE			
Excavator Hitacl					The rebar	for the four	ndation of the buildin	g and the contain	nnent area	
Backhoe John D	eer 310E						reducer fitting			
					Morse Bro	os. delivered	d more 3/4"-minus ro	ck		
NONCONFOR	MANCES NO	OTED						WHO WAS NO	TIFIED?	
None noted.										
SAFETY CON	CERNS NOT	ED						WHO WAS NO	TIFIED?	
None noted.										
WORK COMP		1. 1.200 C	. C41			4 !	. 1 (1	. 1.		
					minus rock	and installe	ed the service valve to	ouay.		
2. The second w	eekly progres	s meeting wa	as conducted	•						
NOTEC/ICCLE	C									
NOTES/ISSUE None	3									
TYONE										
Prepared By:	E & E Field S	Staff								

ecolog	gy and o	environ	ıment, i	nc.				04/07/05	
	oject Title: Project No.:			Support Facilit	y Modifica	tions		Client:	ODEQ
Weatl	her			Tem	perature			Site Conditi	ons
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X X			Morning: Midday: Afternoon:	52	°F °F °F	-	Clean: _ Dusty: _ Muddy: _ Other: _	
CONTRACTO	R(S)/SUBCO	NTRACTO	1						
	tor/Subcontra	actor	Crew Size				Remarks		
Wilder construct	tion		3	The prime cor					
Artic Plumbing			2	Plumbing con					
Bedford Constru	iction		3	Contractor for	concrete s	tructures	<u> </u>		
VISITORS									
Time In	Time Out		Name			Rep	resenting	R	Remarks
9:04	10:00		Jerry Cowg	er		Sprint T	elephone Co.	Repair telephone s	service
12:25	12;30	,	Tony Enevol	lson		Spe	edy Glass	Measurements to	repair trailer windows
MAJOR EQUI	PMENT CUI	RRENTLY	ON SITE		MATER	IALS DI	ELIVERED TO SITE		
Excavator Hitac					The rebar	for the f	foundation of the building	ng and the containr	ment area
Backhoe John D									
Grater CAT 140	Н								
NONCONFOR	MANCES N	OTED						WHO WAS NOT	TIFIED?
None noted.									
								ī	
SAFETY CON	CERNS NOT	ED						WHO WAS NOT	(IFIED?
None noted.									
WORK COMP									
							the reconfigured water	line per detail $3/3$ o	of drawing # 4.
							ter line per detail 1/3.		
3. Bedford Cons	truction const	ructed forms	s for the conc	rete footings a	nd installed	the batt	er boards.		
NOTES/ISSUE	S								
None									
Prepared By:	E & E Field	Staff							

(I)							DAILY FIEL	D REPORT NO.:	9			
(&)							Date	: 04/08/05	Day:	Friday		
U ecolo	gy and «	enviror	ıment, i	inc.					, -			
_												
	roject Title: Project No.:			Support Facility	/ Modificat	tions		Client:	ODEQ			
Weat	her			Ten	emperature			Site Conditions				
Clear:				Morning:	49	°Е		Clean:				
Part Cldy:		-		Midday:	51	°F		Dusty:				
Overcast:	X	-		Afternoon:	51	°F		Muddy:				
Rain:	X	-						Other:				
Fog:		-						-				
Snow:		=										
Other:		-										
CONTRACTO	R(S)/SUBCC	NTRACTO	OR(S)									
	ctor/Subcont		Crew Size			Remarks						
Wilder construc	tion		3		ntractor - I	Departed the	site early today due	to a previous arran	gement			
Bedford Constru			3	Wilder's subco				то предостава	8******			
VISITORS				•		:						
Time In	Time Out		Name			Renre	senting		Remarks			
12:16				-41-	Ea			Dalissams of dusing				
12.10	12:45		Louis Naey	Haeyth East Jordan Iron Works Inc. Delivery of drainage				ige grates				
		<u> </u>			l .							
MAJOR EQUI	PMENT CII	DDFNTI V	ON SITE		MATER	IALS DEL	IVERED TO SITE					
Excavator Hitac		KKENTLI	ONSITE		MATERIALS DELIVERED TO SITE 12 Drainage Grates							
Backhoe John D					12 Draine	ige Grates						
Grater CAT 140												
NONCONFOR	MANCES N	OTED						WHO WAS NOT	TIFIED?			
None noted.		OTED						,,,110 ,,,110 1, to 1	11 122 (
SAFETY CON	CERNS NOT	ED						WHO WAS NOT	TIFIED?			
None noted.												
								•				
WORK COMP	LETED											
		e hydrant an	d backflow n	revention device	e were poi	ured today l	y Wilder Constructi	on. Thrust blocks	are hydraulio	displacement		
							. The configuration a					
connection or ap	purtanance, a	nd soil that v	will be acting	as the bearing	surface.					•		
Additionally,	Wilder Const	ruction comp	pleed the inst	allation of the c	oncrete pa	d beneath th	ne 6"auxillary gate v	alve on the reconfig	gured waterl	ine per detail		
1/3 of the design												
3. Bedford Cons	struction comp	leted the nec	cessary concr	ete forms for th	e building	footings an	d installed approxim	nately one thrid of the	ne rebar.			
NOTES/ISSUE	ES											
None												
									-			
Prepared By:	E & E Field	Staff										

							DAILY FIELI	REPORT NO.:	12	
ecolo	gy and o	environm	ent, i	nc.			Date:	04/13/05	Day:	Wednesday
	-	McCormick and 001688.OY14.2		Support Facility	/ Modificat	tions		Client:	ODEQ	
Weat	her			Tem	perature			Site Condit	ions	
Overcast: Rain:	X X		·	Morning: Midday: Afternoon:	50	°F		Muddy:	х	
CONTRACTO	R(S)/SUBCC	ONTRACTOR(S)							
Contractor/Sub		Cr	ew Size				Remarks			
Wilder Construc				Prime Contrac						
Ross Island Sand	d & Gravel		1	Concrete Sub-						
Bedford Constru	iction		4	Building Sub-C	Contractor					
VISITORS		1						1		
Time In	Time Out		Name	Representing				Remarks		
MA IOD FOLI	DMENT CI	DDENTI V ON	CITE		MATERI	ALCDEI	WEDED TO SITE			
Excavator Hitac	hi Zavis 135	RRENTLY ON	SIIE		MAIEKI	ALS DEI	LIVERED TO SITE			
Backhoe John D										
Vibromax Rolle										
Grader CAT 140)H									
NONCONFOR	MANCE NO	TED						WHO WAS NO	TIFIED?	
None noted.										
								T .		
SAFETY CON	CERNS NOT	ΓED						WHO WAS NO	TIFIED?	
None noted.										
WORK COLD	LETER									
1. Wilder remove temporary barries	ed 6-feet of fo	ence at the site en	trance to	allow for the c	construction	n of the er	ntrance road. Orange o	construction fence	is being ut	ilized as a
		llation of the water	erline.							
		ed concrete into the		of the six footi	ings and pi	ers for the	building.			
					*					
NOTES/ISSUE	S									
None										
Prepared By:	E & E Field	Staff								

						DAILY FIELD REPORT NO.: 13					
ecolo	gy and	environ	ment, i	inc.			Dat	e:	04/14/05	Day:	Thursday
	roject Title: Project No.:			Support Facility	y Modifica	tions			Client:	ODEQ	
Weat	her	•		Ten	nperature				Site Condi	itions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X X	- - - -		Morning: Midday: Afternoon:	45 53 56	°F °F	- - -		Muddy:	X	
CONTRACTO	R(S)/SURCO	NTRACTO	P(S)								
Contractor/Sub		MIKACIO	Crew Size			ions Client: ODEQ Site Conditions Clean: Dusty: Dusty: Muddy: X Other: Other: Remarks r concrete structures Representing Remarks Remarks					
Wilder Construc			3	Prime Contrac	ctor						
Bedford Constru			2			or concret	te structures				
VISITORS											
Time In	Time Out		Name			Rep	resenting			Remarks	
MAJOR EQUI		RRENTLY	ON SITE		MATERIALS DELIVERED TO SITE						
Backhoe John D Vibromax Rolle	r 310E				/43.66 to	ons of 1"1	/2 select fill (24 loads	s)			
CAT 140H Crat											
NONCONFOR	MANCE NO	TED						W	HO WAS NO	TIFIED?	
None noted.											
None noted.	CERNS NOT	ΓED						W	HO WAS NO	TIFIED?	
None noted.											
WORK COMP	LETEN										
		ued installati	on of select t	fill material ove	er the exist	ing asnha	lt narking area today				
2. Bedford Cons	truction remo	ved the wood	den forms fro	om the building	footings a	nd piers a	and performed necess	ary f	inish work.		
							<u> </u>				
NOTES/ISSUE	S										
None											
Prepared By:	E & E Field	Staff									

L					DAILY FIELD REPORT NO.: 14							
(CC)	gy and o	environ	ment, i	nc.			Date:	04/15/05	Day:	Friday		
	roject Title: Project No.:			Support Facility	y Modifica	tions		Client:	ODEQ			
Weat	her			Tem	perature			Site Condit	ions			
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X X			Morning: Midday: Afternoon:	51	°F °F °F		Muddy:	x			
CONTRACTO	R(S)/SUBCO	NTRACTO	PR(S)									
Contractor/Sub	ocontractor		Crew Size				Remarks					
Wilder Construc			3	Prime Contrac								
Anctil Plumbing Morse Bros, Inc	·		5	Wilder's plum Fill, base coars			dor for Wildor					
-	•		3	riii, base coais	se, and con	crete vent	uoi ioi wiiuei					
VISITORS	m 0 :		NT.			- D						
Time In Time Out			Name			Kepr	esenting	Remarks				
MAJOR EQUI	PMENT CUI	RRENTLY	ON SITE		MATER	IALS DE	LIVERED TO SITE					
Backhoe John D	eer 310E				1083.27 tons of 1"1/2 select fill (34 loads)							
Vibromax Rolle												
CAT 140H Grac	ler											
NONCONEOD	MANCE NO	TED						WHO WAS NO	TIELEDO			
NONCONFOR None noted.	MANCE NO	IED						WHO WAS NO	HIFIED:			
rone noteu.												
SAFETY CON	CERNS NOT	TED						WHO WAS NO	TIFIED?			
None noted.												
WORK COMP												
							asphalt is covered.					
2. Anctıl Plumb	ing completed	the hydrosta	itic test on th	e water line wi	th hydrant	ınstalled.	Results were acceptab	ole.				
NOTES/ISSUE	C											
NOTES/ISSUE None	io.											
Prepared By:	E & E Field	Staff										

&							DAILY FIELD	REPORT NO.:	15	
ecolo	gy and	environ	ment, i	nc.			Date:	04/18/05	Day:	Monday
	•	McCormick 001688.OY		Support Facility	y Modifica	tions		Client:	ODEQ	
Weatl	her	_	·	Tem	perature			Site Condit	tions	
Overcast:	X	-		Morning: Midday: Afternoon:	50	°F °F °F		Clean: Dusty: Muddy: Other:	X	
CONTRACTO		ONTRACTO								
Contractor/Sub			Crew Size				Remarks			
Wilder Construc	tion		3	Prime Contrac						
MBI			5	Wilder's base of	coarse, sele	ect fill, an	d concrete vendor.			
VISITORS		T								
Time In	Time Out		Name			Repr	esenting		Remarks	
7:30 7:50			Mark Rier			Wilder (Construction	Audit Wilders Si	te Safety Me	eeting
MAJOR EQUI		RRENTLY (ON SITE				LIVERED TO SITE			
Backhoe John D					1037.57 to	ons of 1"	1/2 select fill (33 loads)	1		
Vibromax Roller CAT 140H Crate										
CAT 140H Clau	CI									
NONCONFOR	MANCE NO	TFD						WHO WAS NO	TIFIFD9	
None noted.	MANCENC	TED						WHO WAS NO	IIIIED;	
ivone noted.										
SAFETY CON	CERNS NO	ГЕD						WHO WAS NO	TIFIED?	
None noted.	CERCIOTIO	ILD						WHO WISTO	III ILD.	
WORK COMP	LETED									
		d and graded t	the 1-1/2-inc	h minus base co	oarse from	the site e	ntrance to 30' north of	STA. 5+00.		
							footings and piers with		s fill.	
NOTES/ISSUE	S									
None										
	-					· · · · ·				
Prepared By:	E & E Field	Staff								

ecolo	gy and o	environment, i	inc.		DAILY FIELD	04/19/05	: 16 Day:	Tuesday		
	-	McCormick and Baxter 5 001688.OY14.25	Support Facility	Modifications		Client:	ODEQ			
Weat	her		Tem	perature		Site Condi	itions			
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x x		Morning: Midday: Afternoon:	40 °f 59 °F 61 °F		Muddy:	Х			
CONTRACTO	R(S)/SUBCO	NTRACTOR(S)								
Contractor/Sub		Crew Size			Remarks Representing Remarks Remarks ATERIALS DELIVERED TO SITE 0.35 tons of 1"1/2 select fill (10 loads); 61.63 tons of 3/4 "0" crushed rock (2 loads)					
Wilder Construc	tion	3	Prime Contract	tor						
Curtis Specialty	Welding	2	Subcontractor							
VISITORS	T: O4	Name		Done	osonting		Domorks			
Time In	Time Out	Name		Kepr	esenting	ACHIAI NS				
MAJOR EQUID Backhoe John D Vibromax Roller CAT 140H Grad	eer 310E	RRENTLY ON SITE		MATERIALS DELIVERED TO SITE 329.35 tons of 1"1/2 select fill (10 loads); 61.63 tons of 3/4 "0" crushed rock (2 loads); 32.98 tons of sand (1 load)						
John Deere 50 C	Excavator									
NONCONFOR		TED		•		WHO WAS NO	TIFIED?			
None noted.										
SAFETY CON	CERNS NOT	ED				WHO WAS NO	TIFIED?			
None noted.										
WORK COMP 1. Wilder Constr 2. Curtis Special building slab.	uction comple	eted the fill around the shotended the riser pipe on t	op building area	a with 1-1/2-inch min t flush mounted mor	nus fill. nitoring wells. The rise	ers are now above	e the project l	neight of the		
NOTES/ISSUE	S									
None										
Prepared By:	E & E Field S	Staff								

(I)							DAILY FIELD	REPORT NO.:	17		
ecolo	gy and	environ	ıment, i	inc.			Date:	04/20/05	Day:_	Wednesday	
	roject Title: Project No.:			Support Facility	y Modificat	tions		Client:	ODEQ		
		001000.01	14.23					21: G 11:			
Weat	her	•		Ten	perature		•	Site Condit	ions		
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	- - - - -		Morning: Midday: Afternoon:		°f °F °F		Clean: Dusty: Muddy: Other:			
CONTRACTO	R(S)/SUBCO	NTRACTO	PR(S)								
Contractor/Sub	ocontractor		Crew Size				Remarks				
Wilder Construc	Wilder Construction 3 Prime Contract										
Carlson Testing			1	Subcontractor							
VISITORS	1	1			1						
Time In	Time Out		Name Representing Remarks								
12:30		John Montgomery				logy and Envi	ronment, Inc.	Weekly Progress	Meeting		
11:00		A	lexander Wh	itman		logy and Envi		Weekly Progress			
13:00	14:00		Pat Turina	ì	V	Vilder Constru	ection Co.	Weekly Progress	Meeting		
					1						
MAJOR EQUI		RRENTLY	ON SITE		MATER	IALS DELIV	ERED TO SITE				
Backhoe John D					None						
Vibromax Rolle											
CAT 140H Crat											
John Deere 50 C											
NONCONFOR	MANCE NO	TED						WHO WAS NOTIFIED?			
None noted.											
C. PEREZ. CON	OFFINA NO.	· · · · · · · · · · · · · · · · · · ·						WING WILL GAVOR			
None noted.	CERNS NO	ED						WHO WAS NOT	HFIED?		
None noted.											
WORK COMP	LETED										
Wilder Construction Wilder Construction	ruction used a	xcessive moi	sture.				select fill. This ope		ot to facilita	ate drying	
							vice. Installed 6"	of sand bedding.			
3. Carlson Testin	-		tion test on t	he installed I"I	/2 select fi	Il at three loca	tions				
4. Conducted W	eekly Progres	s Meeting									
NOTES/ISSUE Select fill is not draining.		action requir	ements due t	o excessive mo	isture reter	ntion. The sele	ect fill appears to h	ave too much silt	and clay an	d is not free	
Prepared By:	E & E Field	Staff									

&					DAILY FIEI	LD REPORT NO.:	18			
ecolo	ov and a	environment, :	ine		Date	e: 04/21/05	Day:	Thursday		
CCOIO	gy and t	environment,	iiic.							
	•	McCormick and Baxter	Support Facility	y Modifications		Client:	ODEQ			
E & E l	Project No.:	001688.OY14.25								
Weat	her	•	Ten	perature		Site Condit	ions			
Clear:			Morning:	48 °f		Clean:	X			
Part Cldy:	X	<u>.</u>	Midday:	56 °F		Dusty:				
Overcast:		<u>=</u> -	Afternoon:	70 °F		Muddy:				
Rain: Fog:		<u>=</u> -				Other:				
Snow:		-								
Other:		- -								
CONTRACTO	R(S)/SURCO	ONTRACTOR(S)								
Contractor/Sub		Crew Size			Remark	is				
Wilder Construc	tion	3	Prime Contrac	etor						
Anctil Plumbing	,	1	Subcontractor							
Midnight Electr		2	Subcontractor							
VISITORS										
Time In	Time Out	Name		Repre	senting		Remarks			
8:45	14:10	Andrew Mu	rphy	Ecology and Er	vironment, Inc.	Cap Assessment				
11:30	11:45	Mike Fay	7	Wilder Cons	struction Co.	Site Visit				
12:45	13:00	Carl Fergur	son	Skyline Telephone Telephone Line Repair						
		RRENTLY ON SITE		MATERIALS DEL	IVERED TO SITI	E				
Backhoe John D				31.16 tons of sand						
Vibromax Rolle CAT 140H Grad										
John Deere 50 C										
NONCONFOR		TFD		· ·		WHO WAS NOTIFIED?				
None noted.	MINCENO	TED				WHO WAS NO	mie.			
						•				
SAFETY CON	CERNS NOT	TED				WHO WAS NO	TIFIED?			
None noted.										
WORK COMP	LETED									
Wilder Construction Concrete slab.	ruction placed	, graded, and compacted	a 6-inch thick l	ift of 3/4" minus crush	ed rock in the shop	building area to act	as a base co	arse for the		
2. Wilder Const	ruction comple	eted the excavation of the	trenches for bu	uried utilities for the s	hop building and su	upport trailers (phon	e, water supp	ply, and power)		
3. Anctil Plumb	ing installed th	he water service piping fr	om the main wa	ater supply line to the	shop building, eyev	vash location, and th	e trailer loca	ition.		
 Midnight Electrical 	etric Co. begai	n installing underground	electrical and te	elephone conduit.						
NOTES/ISSUE	S									
None										
Prepared By:	E & E Field S	Staff								

ecolo	gy and e	environ	ıment, i	inc.		DAILY FIELD Date:	REPORT NO.:	20 Day:	Friday
	Project Title: Project No.:			Support Facility	y Modifications		Client:	ODEQ	
Weatl	.her			Ten	nperature		Site Conditi	ons	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X X	- - - - -		Morning: Midday: Afternoon:	60 °F		Clean: _ Dusty: _ Muddy: _ Other: _	x	
CONTRACTO	R(S)/SUBCC	ONTRACTO	DR(S)						
Contractor/Sub			Crew Size			Remarks			
Wilder Construc	ction		3	Prime Contrac	etor				
			ļ'	 					
VISITORS			<u> </u>	<u> </u>					
Time In	Time Out		Name		Represe	nting		Remarks	
	<u> </u>	<u> </u>							
	<u> </u>					1			
MAJOR EQUI	PMENT CU	RRENTLY	ON SITE		MATERIALS DELIV	VERED TO SITE			
Backhoe John D	Deer 310E				IVERE EXECUTE OF THE PROPERTY	Like			
Vibromax Roller									
CAT 140H Crate John Deere 50 C					 				
NONCONFOR					<u>. </u>		WHO WAS NOT	ereiedo	
None noted.	MANCE NO	IED					WHU WAS NOT	IFIED	
Trone neces.									
SAFETY CON	CERNS NOT	red					WHO WAS NOT	TFIED?	
None noted.									
== ====									
WORK COMP	LETED								
1. None									
NOTES/ISSUE	/C								
	y rain and high		ontent of the	1-1/2-minus sel	lect fill Wilder Construct	tion decided not to d	listurb the materia	l until tomor	row as weathe
Prepared By:	E & E Field	Staff							

						DAILY FIELD	REPORT NO.:	21		
&J ecolor	gy and o	environ	ment i	ne		Date:	04/26/05	Day:	Tuesday	
Ceord	gy and		illiciti, i	uic.						
Pı	roject Title:	McCormick	and Baxter S	Support Facility	Modifications		Client:	ODEQ		
E & E I	Project No.:	001688.OY	14.25							
Weatl	her	•		Tem	perature	,	Site Condi	tions		
Clear:	x PM	_		Morning:						
Part Cldy: Overcast:	x AM	-		Midday: Afternoon:	68 °F 72 °F		Dusty: Muddy:	x		
Rain:		- -		11101110011.			Other:			
Fog: Snow:	x AM	=								
Other:		-								
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub	contractor		Crew Size			Remarks				
Wilder Construc	tion		3	Prime Contract	tor					
VISITORS										
Time In	Time Out		Name		Repres	resenting Remarks				
MA YOR DOVE	D. CO. C. C.		ON CAMP			WEDER TO STEE				
MAJOR EQUII Backhoe John D	eer 310E		6-Hours		MATERIALS DEL	IVERED TO SITE				
Vibromax Roller	ſ									
CAT 140H Grad John Deere 50 C		operated	4-Hours							
NONCONFOR		TED					WHO WAS NO	TIFIED?		
None noted.										
SAFETY CON	CEDNC NOT	TED					WHO WAS NO	TIFIFD9		
None noted.	CERNS NO	ED					WHO WAS NO	HIFIED:		
WORK COMP		de a la atui a as	ad talambana		to assisting and a Th	d		af ama fa at 1		
Wilder Constr Wilder Constr	uction excava	ated the perio	meter of the	shop building for	to existing grade. The potprint in preparation	for the installation of	f the concrete for	ns and batter	boards.	
NOTES/ISSUE	s									
None										
Prepared By:	E & E Field	Staff								

81								O REPORT NO.		
ecolog	gy and o	environ	ment, i	nc.			Date:	04/27/05	_ Day:	Wednesday
	roject Title: Project No.:			Support Facility	Modificat	ions		Client:	ODEQ	
Weat				Tem	perature			Site Cond	itions	
		•			-	0 -				
Clear: Part Cldy:	X	-		Morning: Midday:	69	°F		Clean:		
Overcast:		=		Afternoon:	73	°F		Dusty: Muddy:		
Rain:		-		Atternoon.				Other:		
Fog:		-								
Snow:		=' -								
Other:		-								
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub			Crew Size				Remarks			
Wilder Construc			2	Prime Contrac	tor				· · · · · · · · · · · · · · · · · · ·	
Bedford Constru	ection		4	Subcontractor						
VISITORS										
Time In	Time Out		Name			Repi	resenting		Remarks	
11:45	12:00		Jim Rimbe	rt		City o	of Portland	Electrical Condu	iit Inspection	
					·					
MAJOR EQUI		RRENTLY (ON SITE		MATERI	ALS DE	LIVERED TO SITE			
Backhoe John D					None		-			
Vibromax Roller		approximat								
CAT 140H Grad John Deere 50 C		approximat	∠-Hours		-					
NONCONFOR		TFD			1			WHO WAS NO	TIFIF IN 9	
None noted.	MAINCE NO	ieu						WHO WAS NO	, iiiib	
							•			
SAFETY CON	CERNS NOT	ED						WHO WAS NO	TIFIED?	
None noted.										
WORK COMP	I ETEN									
		the installati	ion of the w	ooden forms ba	itter boards	and reh	ar for the shop building	concrete slah		
2. Wilder Constr						, 100	are shop ounding	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
3. Wilder Constr										
NOTECHOLIE	C									
NOTES/ISSUE		ad tade								
Progress Meeting	g # 3 conduct	eu touay.								
Duanauad D.	E 9. E E:a14.0	Ctoff								
Prepared By:	E & E FIEID	Stall								
	·									

ecolo	gy and o	environ	ıment, i	inc.			DAILY FIELI Date:	04/28/05	23 	Thursday
	roject Title: Project No.:			Support Facility	/ Modificat	tions		Client:	ODEQ	
Weat	her	,		Tem	perature	,		Site Condit	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x	• - - - - -	·	Morning: Midday: Afternoon:	53 60 64	°f °F °F		Clean: Dusty: Muddy: Other:	x	
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub			Crew Size				Remarks			
Wilder Construc	ction		2	Prime Contract	tor					
Bedford Constru	iction		4	Subcontractor						
VISITORS										
Time In	Time Out		Name			Repre	esenting		Remarks	
		<u> </u>								
]		
					T					
MAJOR EQUI					_	IALS DEL	LIVERED TO SITE			
Backhoe John D		approximat			None					
Vibromax Rolle		approximat			1					
CAT 140H Grat John Deere 50 C		approximat	2-Hours							
		TED						WIIO WAS NO	TIEIEDO	
NONCONFOR None noted.	MANCE NO	TED						WHO WAS NO	HIFIED;	
None noted.								<u> </u>		
SAFETY CON	CERNS NOT	CED.						WHO WAS NO	TIFIFD?	
None noted.	CERNS NOT	ED						WHO WAS NO	IIIIED:	
WORK COMP	LETED									
		eted the insta	allation of the	rebar and rein	forcements	for the sho	op building concrete s	slah		
							ice concrete pad.			
							Ill previously ripped in	n an attempt to fac	ilitate drying	r
NOTES/ISSUE	S									
The current plan	is to pour bot	th concrete pa	ad for the sho	p building and	the pad for	r the backf	low prevention device	e on Friday April 2	29th, weathe	r permitting.
Prepared By:	E & E Field	Staff								

ecolog	gy and o	environ	ment, i	inc.		DAILY FIELD Date:	REPORT NO.: 04/29/05	24 Day:	Friday
	oject Title: Project No.:			Support Facility	Modifications		Client:	ODEQ	
Weath	ner	-		Tem	perature	_	Site Condit	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	- - - - - -		Morning: Midday: Afternoon:	52 °f 58 °F 63 °F		Clean: Dusty: Muddy: Other:		
CONTRACTO		NTRACTO	R(S)						
Contractor/Sub	contractor		Crew Size			Remarks			
Wilder Construct			0	Prime Contract	tor				
Bedford Constru	ction		4	Subcontractor					
VICITORS									
VISITORS Time In	Time Out		Name		Representi	ng		Remarks	
10:51	11:12		Bill Bean		City Of Portl	-	Eviatina I It	ilities Locatio	na
10.51	11.12		Dili Beali		City Of Forti	anu	Existing Ot	inues Locatio	115
					I	Į.			
MAJOR EQUII	PMENT CUI	RRENTLY (ON SITE		MATERIALS DELIVE	RED TO SITE			
Backhoe John De		0- Hours			None				
Vibromax Roller		0-Hours							
CAT 140H Grad John Deere 50 C		0-Hours							
							WHO WAS NO	TIELEDO	
NONCONFORM None noted.	VIANCE NO	ILD					WHO WAS NO	11FIED?	
None noted.									
SAFETY CONC	CERNS NOT	ED				,	WHO WAS NO	TIFIED?	
None noted.									
WORK COMP									
Bedford Const	ruction began	n the installat	ion of the co	ncrete forms, ba	atter boards, and rebar for	the hazardous con	tainment area.		
NOTECHECUE	7								
NOTES/ISSUES		onstruction :	revised their	schedule for no	uring the concrete for the s	shon huilding's als	ah to Monday Me	av 2 2005	
Due to expected	iani wiluci C	onsu uctivil i	eviscu men	schedule for po	uring the concrete for the s	mop ounding s sie	io io ivioliuay IVI	ıy 4, 4003.	
Prepared By:	E & E Field S	Staff							

	_						DAILY FIE		REPORT NO.: 05/02/05	25 Day:	Monday
U ecolog	gy and o	environ	ment, i	inc.						<u>-</u>	
	roject Title: Project No.:			Support Facility	Modificati	ions			Client:	ODEQ	
			20	Т					6'4. C 1'		
Weatl	ner	•		1 em	perature			_	Site Condi	tions	
Clear: Part Cldy:	X	-		Morning: Midday:	52 58	°f			Clean: Dusty:	X	
Overcast: Rain:		-		Afternoon:	63	°F_			Muddy: Other:		
Fog:		-							Other.		
Snow:		-									
Other:		-									
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)								
Contractor/Sub			Crew Size				Remar	ks			
Wilder Construc	tion		4	Prime Contract	tor						
Bedford Constru			7	Subcontractor							
Ross Island Sand			3	Subcontractor							
Carlson Testing,	Inc		1	Subcontractor							
VISITORS		ı			ı			-			
Time In	Time Out		Name			Repre	esenting			Remarks	
MA JOB FOLI	DATENITE CITY	DDENET V	ON CURE		MATERIA	ALCDEI	HÆDED TO CIT				
MAJOR EQUII			ON SITE				LIVERED TO SIT	Ł			
Backhoe John De Vibromax Roller		0- Hours 0-Hours			27cubic ya	arus oi coi	icrete				
CAT 140H Grate		0-Hours									
John Deere 50 C	Excavator	2-Hours									
NONCONFOR	MANCE NO	TED						V	VHO WAS NO	TIFIED?	
None noted.											
SAFETY CON	CERNS NOT	TED						V	VHO WAS NO	TIFIED?	
None noted.											
WORK COMP		1 . 1 .		0.1 1.1 0 .1		1:					
1. Bedford Cons							formance to the pro	oioot	enacifications		
Wilder Constr	~		•					ojeci	specifications.		
3. White Consti	uction excava	ated the local	ion for the ne	ew the wash are	za witiiii tii	ic new sup	port area.				
NOTES/ISSUE	s										
None											
Prepared By:	E & E Field	Staff									

(p						DAILY FIELD	REPORT NO.:	26	
&J	gy and o	onvinor	mont i	no		Date:	05/03/05	Day:	Tuesday
O ecolo	gy anu (envnon	illient, i	iic.					
	roject Title: Project No.:			Support Facility	Modifications		Client:	ODEQ	
Weat				Tem	perature		Site Condi	tions	
CI.					-	•	CI		
Clear: Part Cldy:	X	=		Morning: Midday:	49 °f 65 °F		Clean: Dusty:	X	
Overcast:		-		Afternoon:	70 °F		Muddy:		
Rain: Fog:		=					Other:		
Snow:		-							
Other:		-							
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)						
Contractor/Sub			Crew Size			Remarks			
Wilder Construc Bedford Constru			5	Prime Contract	tor				
Bedioid Collstiu	iction		3	Subcontractor					
VISITORS									
Time In	Time Out		Name		Rep	resenting		Remarks	
					<u>I</u>				
MAJOR EQUI	PMENT CUI	RRENTLY	ON SITE		MATERIALS DE	LIVERED TO SITE			
Backhoe John D		0- Hours			None				
Vibromax Roller CAT 140H Grate		6-Hours 2-Hours							
John Deere 50 C		0-Hours							
NONCONFOR	MANCE NO	TED					WHO WAS NO	TIFIED?	
None noted.									
SAFETY CONO None noted.	CERNS NOT	ΓED					WHO WAS NO	TIFIED?	
None noted.									
WORK COMP	LETED								
		ved the form	s and batter b	ooards for the sh	nop building concre	te slab.			
Bedford Cons	truction began	n the installat	tion of the for	rms, batter boar	ds, and the rebar fo	r the concrete of the haz			
Wilder Constr compaction.	ruction re-grad	ded and re-co	ompacted the	1-1/2-inch sele	ect fill material in a	nother attempt to lower	the moisture cont	ent and reach	the required
1									
NOTES/ISSUE	S								
None									
Prepared By:	E & E Field	Staff							

P							DAILY FIEL	D REPORT N	NO.: 27	
ecolos	gy and	environ	ment. i	ine.			Date	: 05/04/05	Day:	Wednesday
Ceord	5,		inicito,							
Pr	roject Title:	McCormick	and Baxter	Support Facility	Modificati	ons		Clie	nt: ODEQ	
E & E I	Project No.:	001688.OY	14.25							
Weat	her	•		Tem	perature			Site Co	onditions	
Clear:	X			Morning:	51	°f		Cle	an: x	
	X	-		Midday:	60			Dus	sty:	
Overcast:		-		Afternoon:	67	°F		Mud	dy:	
Rain:		- -						Oth	ier:	
Fog:		=								
Snow: Other:		-								
Other.		-								
CONTRACTO	R(S)/SUBCC	NTRACTO	PR(S)							
Contractor/Sub			Crew Size				Remarks	S		
Wilder Construc	tion		3	Prime Contract	or					
Bedford Constru	ction		4	Subcontractor						
VISITORS			<u> </u>							
Time In	Time Out		Name			Repre	senting		Remarks	
							-			
MAJOR EQUI	PMENT CU		ON SITE		MATERI	ALS DEL	IVERED TO SITE			
Backhoe John D		0- Hours			None					
Vibromax Roller		0-Hours								
CAT 140H Grad John Deere 50 C		0-Hours								
								WHO WAS	NOTIFIEDO	
NONCONFOR None noted.	MANCE NO	TED						WHO WAS	NOTIFIED?	
None noted.								1		
SAFETY CON	CERNS NOT	ΓED						WHO WAS	NOTIFIED?	
None noted.										
WORK COMP	LETED									
 Bedford Cons 	truction insta	lled rebar and	d bracing for	the forms for th	e hazardou	s materials	s storage area			
NOTES/ISSUE	s									
Progress Meetin		d.								
Prepared By:	E & E Field	Staff								

<u>G</u>						DAILY FIELD	REPORT NO.:	28	
ecolo	gy and o	environ	ıment, i	inc.		Date:	05/05/05	Day:	Thursday
	roject Title: Project No.:			Support Facility	Modifications		Client:	ODEQ	
Weat	her	_		Tem	perature	_	Site Condi	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x	- - - - -		Morning: Midday: Afternoon:	60 °f 64 °F 70 °F		Clean: Dusty: Muddy: Other:	x	
CONTRACTO	R(S)/SUBCO	NTRACTO	PR(S)						
Contractor/Sul	ocontractor		Crew Size			Remarks			
Wilder Construc	ction		3	Prime Contract	tor				
Bedford Constru	iction		4	Subcontractor					
VISITORS			<u> </u>						
Time In	Time Out		Name		Panras	senting		Remarks	
Time in	Time Out		rume		перге	,citing		Tema Ka	
					L				
MAJOR EQUI	PMENT CUI	RRENTLY	ON SITE		MATERIALS DEL	IVERED TO SITE			
Backhoe John D	eer 310E	0- Hours			None				
Vibromax Rolle		0-Hours							
CAT 140H Grat		0-Hours							
John Deere 50 C									
NONCONFOR	MANCE NO	TED					WHO WAS NO	TIFIED?	
None noted.									
SAFETY CON	CEDNE NOT	ren					WHO WAS NO	TIEIFD?	
None noted.	CERNS NOT	ED					WHO WAS NO	HEIED:	
rone notes.									
WORK COMP	LETED								
		oleted the ins	tallation of th	ne concrete form	ns for the luminaries b	pase.			
2. Bedford Cons	truction comp	leted installa	ation of the w	ooden and meta	al form bracings for th	ne hazardous storage a	rea.		
NOTES/ISSUE	S								
		ardous Stora	ge Pad and tl	ne Luminaries b	ase is scheduled for to	omorrow.			
Prepared By:	E & E Field	Staff							

&						DAI	LY FIELD	REPORT NO.:	29	
	gy and o	environ	ment, i	inc.			Date:	05/06/05	Day:	Friday
	roject Title: Project No.:			Support Facility	/ Modification	ons		Client: (ODEQ	
Weat	her			Tem	perature			Site Conditi	ons	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	- - - - -		Morning: Midday: Afternoon:	60 64 70	°f °F °F		Clean: _ Dusty: _ Muddy: _ Other: _	x	
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub	contractor		Crew Size				Remarks			
Wilder Construc	tion		3	Prime Contrac	tor					
Bedford Constru			8	Concrete Subc						
Ampere Electric Carlson Testing	aı		2	Electrical Subo Concrete testin		r				
eurison resung			-	Concrete testi	ig contracto	•				
VISITORS			•	•						
Time In	Time Out		Name			Representing			Remarks	
MAJOR EQUI	PMENT CUI	RRENTLY	ON SITE		MATERIA	ALS DELIVERED	TO SITE			
Backhoe John D		0- Hours			1	ne Luminaries base				
Vibromax Rolle CAT 140H Grat		0-Hours			Four truck	loads of concrete				
John Deere 50 C		0-Hours								
NONCONFOR							,	WHO WAS NOT	TELED?	
None noted.		122						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
SAFETY CON	CERNS NOT	TED					,	WHO WAS NOT	TIFIED?	
None noted.										
WORK COMP		1.4.14		Conton	1					
Wilder Constr						erials storage area.				
2. Wilder Collect	uetron compi	otea ine pau	ior une ouein	ion provention	401100.					
most cost effecti	luminaries bave and structu Vilder and the	ıral sound so	lution would	be to dig down	to the prece	s too long for the desonstruction ground s acavating, and resett	surface eleva	ntion below the bas	se. Extra tim	e and effort will
Prepared By:	E & E Field	Staff								

ecology a	and e	environ	ment, i	nc.				05/09/05		Monday
Project E & E Projec				Support Facility	Modificat	ions		Client:	ODEQ	
Weather				Tem	perature			Site Condition	ons	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X			Morning: Midday: Afternoon:	60	°f °F °F		Clean: _ Dusty: _ Muddy: _ Other: _	X	
CONTRACTOR(S)/S	SUBCO	NTRACTO	R(S)							
Contractor/Subcontr			Crew Size				Remarks			
Wilder Construction				Prime Contract	tor					
Bedford Construction			3	Concrete Subc	ontractor					
VISITORS										
Time In Tim	ne Out		Name			Repr	esenting	R	Remarks	
					I					
MAJOR EQUIPMEN Backhoe John Deer 31		RRENTLY (0- Hours	ON SITE		MATERI	ALS DE	LIVERED TO SITE			
John Deere 50 C Exca		0- Hours								
NONCONFORMAN		TED						WHO WAS NOT	TIFIED?	
None noted.									·	
SAFETY CONCERN	NS NOT	ED						WHO WAS NOT	THEED?	
None noted.	.5.101									
WORK COMPLETE										
Bedford Construction Wilder construction m								l reset the Luminar	ies form ba	se after the
NOTES/ISSUES										
NOTES/ISSUES None										
Prepared By: E & F	E Field S	Staff								

ecolo	gy and o	environ	ıment, i	nc.			DAILY FIELI Date:	05/10/05	<u> </u>	Tuesday
	oject Title: Project No.:			Support Facility	/ Modificat	tions		Client:	ODEQ	
Weat	her		i	Tem	perature			Site Conditi	ons	
Fog:	X	- -		Morning: Midday: Afternoon:	60	°f °F °F		Clean: Dusty: Muddy: Other:	X	
CONTRACTO	R(S)/SUBCC	ONTRACTO	DR(S)							
Contractor/Sub	contractor		Crew Size				Remarks			
Wilder Construc	tion		3	No work was p	performed	on this cor	ntract.			
VISITORS										
Time In	Time Out		Name			Repre	esenting	F	Remarks	
MAJOR EQUI	PMENT CU	RRENTLY	ON SITE		MATERI	ALS DEI	LIVERED TO SITE			
Backhoe John D		0- Hours								
John Deere 50 C		0-Hours			<u> </u>			WHO WAS NOT	CIFIFD?	
None noted.	MANCENO	TED						WHO WAS NOT	HILD:	
SAFETY CON	CERNS NOT	ГЕО						WHO WAS NOT	ΓIFIED?	
None noted.										
WORK COMP	LETED									
WORK COMP 1. No work was		n this contrac	et today							
	r trace of									
NOTES/ISSUE	s									
None										
Prepared By:										

ecolo	gy and	environr	nent, i	inc.			DAILY FIELI Date:	05/11/05	32 Day:	Wednesday
II	-	McCormick at 001688.OY14		Support Facility	/ Modificat	ions		Client: C	DDEQ	
Weat	her	_		Ten	perature			Site Condition	ns	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	- - - - -		Morning: Midday: Afternoon:	60	°f °F °F		Clean:	X	
CONTRACTO			1	I						
Contractor/Sub			Crew Size	*****			Remarks			
Wilder Construct Bedford	etion		3	Wilder did not			t today.			
Bediord			3	Wilder's conci	ete subcon	ractor				
VISITORS										
Time In	Time Out		Name			Renre	esenting	I I	Remarks	
Time in	Time Out		rume			Перге		-	temar ks	
					I			L		
MAJOR EQUI	PMENT CU	RRENTLY O	N SITE		MATERI	ALS DEI	LIVERED TO SITE			
Backhoe John D		0- Hours	, gril		.,	TLS DEL	DIVERSION OF THE			
John Deere 50 C	Excavator	0-Hours							-	
NONCONFOR	MANCE NO	TED						WHO WAS NOT	IFIED?	
None noted.										
SAFETY CON	CERNS NOT	ГЕО						WHO WAS NOT	IFIED?	
None noted.										
WORK COMP										
Bedford com	pleted finish	work on the haz	zardous coi	ntainment area	and installe	d rebar for	r the wheel wash toda	y.		
NOTES/ISSUE	S									
None	`									
Prepared By:										

(A)							DAILY FIELD	REPORT NO.:	33	
ecolog	gy and	environ	ment, i	inc.			Date: _	05/12/05	Day:	Thursday
	oject Title: Project No.:			Support Facility	/ Modificat	tions		Client:	ODEQ	
Weatl	her	•		Tem	perature			Site Condit	ions	
Part Cldy: Overcast: Rain: Fog:	X X	- - -		Morning: Midday: Afternoon:	70	°f °F °F		Clean: Dusty: Muddy: Other:	X	
CONTRACTO	R(S)/SUBCO	ONTRACTO	R(S)							
Contractor/Sub			Crew Size				Remarks			
Wilder Construc	tion		3	Wilder did not	work on tl	nis contract to	oday.			
Bedford			3	Wilder's concr			,			
VISITORS				<u> </u>						
Time In	Time Out		Name			Represe	nting]	Remarks	
					T					
MAJOR EQUI			ON SITE		MATERI	ALS DELIV	VERED TO SITE			
Backhoe John D John Deere 50 C		0- Hours								
					<u> </u>			WILO WAS NO	TIELEDO	
NONCONFOR None noted.	MANCE NO	TED					<u>'</u>	VHO WAS NO	11FIED?	
None noted.										
SAFETY CON	CERNS NO	ΓED					Ι,	VHO WAS NO	TIFIED?	
None noted.	CLIL IS I TO							,110 ,,110 1,10		
							·			
WORK COMP	LETED									
 Bedford pour 	ed the concre	te for the Lu	minaries bas	e and the wheel	wash toda					
NOTES/ISSUE	S									
None										
Prepared By:	A. Murphy									

ecolo	gy and	environ	ment, i	nc.			DAILY FIELI Date:	05/23/05	40 Day:	Monday
	roject Title: Project No.:			upport Facility	Modificat	tions		Client:	ODEQ	
Weat	her	_		Tem	perature			Site Condit	ions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x	- - - - -		Morning: Midday: Afternoon:	47 60 68	°f °F °F		Clean: Dusty: Muddy: Other:	x	
CONTRACTO	R(S)/SUBCC	ONTRACTO	PR(S)							
Contractor/Sul			Crew Size				Remarks	S		
Wilder Construc	ction		3							
VISITORS										
Time In	Time Out		Name			Repr	esenting		Remarks	
MAJOR EQUI	PMENT CU	RRENTLY (ON SITE		MATER	IALS DE	LIVERED TO SITE			
Backhoe John D		4		hours						
Genie Lift (Mur Backhoe Case 5		0		hours hours						
Hyster 210 Fork		0		hours						
450 Cat bulldoz	er	3.5		hours						
John Deere 50 C	Excavator	0		hours				1		
NONCONFOR	MANCE NO	TED						WHO WAS NO	TIFIED?	
None noted.										
SAFETY CON	CERNS NOT	ΓFD						WHO WAS NO	CIFIED?	
None noted.	CERTIFICA	LD						WHO WHO IVO	III ILD.	
WORK COMP	PLETED									
Wilder Construct assist to dry the			s and plastic	from the suppo	ort facility	cap and rip	pped the select fill mat	erial with the bull	lozer in yet a	nother attempt to
NOTES/ISSUE	:S									
None										
Prepared By:	G. Jones									

(p							DAILY FIELD	REPORT NO.:	41	
ecolo	gy and	environ	ment, i	nc.			Date:	05/24/05		Tuesday
	Project Title: Project No.:			upport Facility	/ Modificat	tions		Client:	ODEQ	
Weat	ther	•	_	Tem	perature			Site Condi	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	-		Morning: Midday: Afternoon:	50 66 72	°f °F °F		Clean: Dusty: Muddy: Other:	X	
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sul	bcontractor		Crew Size				Remarks			
Wilder Constru	ction		1							
· warmana										
VISITORS	TT1 0 1	l	N		1	D			D I	
Time In	Time Out		Name			Repres	senting		Remarks	
MAJOR EQUI		RRENTLY (ON SITE		MATER	IALS DEL	IVERED TO SITE			
Backhoe John I				hours						
Genie Lift (Mur Ingresol Rand S		0		hours						
Hyster 210 Fork	dift	0		hours hours						
450 Cat bulldoz		3		hours						
John Deere 50 (C Excavator	0		hours						
NONCONFOR	RMANCE NO	TED						WHO WAS NO	TIFIED?	
None noted.										
SAFETY CON None noted.	CERNS NOT	TED						WHO WAS NO	TIFIED?	
None noted.										
WORK COM	PLETED									
Wilder Construc	ction ripped ar	nd re-graded	more of the se	elect fill materi	ial in the su	ipport area	in an attempt increase	drying of the ma	terial. Wilds	er installed
orange tempora	ry construction	n fencing as c	lemarcation fa	abric between	existing sit	e soils and	'clean' cap material.			
NOTES/ISSUE	ES									
None										
Prepared By:	G. Jones									

E								05/25/05		Wednesday
J ecolog	gy and ϵ	environ	ment, ir	ıc.			Dute.	03/23/03	Day	Wednesday
	roject Title: Project No.:		and Baxter Su 14.25	ipport Facility	Modifications	S		Client:	ODEQ	
Weath	her			Tem	perature			Site Conditi	ions	
Clear:	x			Morning:	51	°f		Clean:	x	
Part Cldy:	Х	•		Midday:	78 85	°F		Dusty:		
Overcast:		•		Afternoon:	85	°F		Muddy:		
Rain:		•						Other:		
Fog:		_						-		
Snow:		•								
Other:		•								
CONTRACTOR	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub			Crew Size				Remarks			
Wilder Construct	tion		1							
VISITORS										
Time In	Time Out		Name			Represen	ting		Remarks	
						-				
MAJOR EQUIF	PMENT CUF	RRENTLY (ON SITE		MATERIAL	S DELIV	ERED TO SITE			
Backhoe John De	eer 310E	3		hours						
Genie Lift (Muni		0		hours		,			,	
Ingresoll Rand S				hours						
Hyster 210 Forkl		0		hours						
450 Cat bulldoze		3		hours						
John Deere 50 C	Excavator	0		hours						
NONCONFORM	MANCE NO	TED						WHO WAS NOT	TIFIED?	
None noted.										
SAFETY CONC	CERNS NOT	TD.						WHO WAS NOT	rifieD?	
None noted.	JEIGING ING I	ED						WIIO WAS ITO	ппъ	
Trone noted.										
WORK COMP	TETED									
1.Ampere Electri		a algotrical m	atar hav and c	cannoted the	anduit to it					
Wilder Constru										
Wilder Constru Wilder comple					n touay.					
J. Wilder comple	ted the matth	allon of the	iciliar cation 10	1011						
NOTES/ISSUES	s									
None Noted										
Prepared By:	G. Jones									

(<u>8</u>)							DAILY FIELD	REPORT NO.:	45	
ecolog	gy and o	environ	ment, iı	nc.			Date:	05/31/05	Day:	Tuesday
	oject Title: Project No.:				Client:	ODEQ				
Weatl	her			Tem	perature			Site Condit	ions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x x	• - - - -	-	Morning: Midday: Afternoon:		°f °F °F		Clean: Dusty: Muddy: Other:	X	
CONTRACTO	R(S)/SUBCO	ONTRACTO	R(S)							
Contractor/Sub	contractor		Crew Size				Remarks			
Wilder Construc	tion		3							
VISITORS		ı			T					
Time In	Time Out		Name			Repre	esenting	Ì	Remarks	
MA IOD FOLL	DMENT CIT	DDENTI V A	ON CITE		MATEDI	IALCDE	I WEDED TO SITE			
MAJOR EQUI Backhoe John D		4	JN SITE	hours			INTERINGUE OF SITE ons of 3/4"stone deliver	red to site		
Genie Lift (Mun		0		hours	A total of	287.03 10	ils of 5/4 stolle deliver	icu to sitc.		
Ingresoll Rand S				hours						
Hyster 210 Fork	lift	0		hours						
450 Cat bulldoze		7.5		hours						
John Deere 50 C	Excavator	0		hours						
NONCONFOR	MANCE NO	TED						WHO WAS NO	TIFIED?	
None noted.										
SAFETY CON	CERNS NOT	ΓED						WHO WAS NO	TIFIED?	
None noted.										
WORK COMP	LETER									
WORK COMP		1.4	. 2/4 !! .		1	1:	337:1.1 1	. 1 1 1 1 1	1 2/4 !! :	
1. Wilder Consti	uction install	ed the remain	ing 3/4 " min	us stone on th	e cap and p	barking are	ea. Wilder also compa	acted and graded to	ne 3/4 " min	lus.
NOTES/ISSUE	S									
None Noted										
Prepared By:	G. Jones									

(D							DAILY FIELI	REPORT NO.:	46	
ecolo	gy and o	environr	nent, i	nc.			Date:	06/01/05	Day:_	Wednesday
	-	McCormick a 001688.OY14		Support Facility	/ Modificati	ons		Client:	ODEQ	
Weat	her			Ten	perature			Site Condit	ions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X X X	• - - - -		Morning: Midday: Afternoon:	52 57 62	°f °F °F		Clean: Dusty: Muddy: Other:	x	
CONTRACTO	R(S)/SUBCO	NTRACTOR	4(S)							
Contractor/Sub	contractor		Crew Size				Remarks			
Wilder Construc	ction		4							
VISITORS	1	ı						1		
Time In	Time Out		Name			Represe	nting		Remarks	
11:10	12:40		hn Montgor		Ecolo		ironment, Inc.	Meeting		
11:05	12:40		Kevin Parre			DEC	`	Meeting		
11:30	12:40	St	teve Campb	pell		DEC	Į.	Meeting		
MAJOR EQUI			N SITE				VERED TO SITE	1/(2/- 1.1 - 1.)		
Backhoe John D Caterpillar CB2	eer 310E	6.75		hours	A total of)6.28 tons of	f 3/4"stone delivere	ed (3-truck loads)		
Ingell Rand SD		6.75 1		hours						
Hyster 210 Fork	lift	0		hours						
450 Cat bulldoz		7.5		hours						
John Deere 50 C		0		hours						
NONCONFOR	MANCE NO	TED				:		WHO WAS NO	TIFIED?	
None noted.	IVIII TO LITTO	TLD						WHO WISHO	III ILD.	
								•		
SAFETY CON	CERNS NOT	TED						WHO WAS NO	TIFIED?	
None noted.								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
WORK COMP	LETED									
Wilder Const.	ruction placed	, graded, and p	erformed c	ompactive effo	the site ent	rance road				
	-			-						
NOTES/ISSUE	c									
Wilder experien	cina difficulty	arading the ct	one due to	the poor condit	ion of the s	elect fill mat	terial beneath. The	select fill is too hi	gh in moist	ure
THUCK CAPCITEIN	ong unneulty	Brauing the St	one due to	are poor condit	01 1110 5	Jioot IIII IIIal	teriai ociicatii. Tile	501001 1111 15 100 111	511 III IIIOISI	u10.
Prepared By:	G. Jones									

							DAILY FIELD	REPORT NO.:	49	
ecolo	gy and	environ	ment, i	nc.			Date:	06/06/05	Day:	Monday
	Project Title: Project No.:			support Facilit	y Modificat	ions		Client:	ODEQ	
Weat	ther	_		Ten	nperature			Site Condit	ions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X X X	- - - - -		Morning: Midday: Afternoon:	67	°f °F °F		Clean: Dusty: Muddy: Other:	х	
CONTRACTO	PR(S)/SUBCO	ONTRACTOI	R(S)							
Contractor/Sul			Crew Size				Remarks			
Ampere Electric				Wilder's elect	rical subcor	ntractor				
impere Electric			-	.,	iour succes	- Carretter				
VISITORS										
Time In	Time Out		Name			Repre	senting		Remarks	
					<u> </u>		8			
					ı					
MAJOR EQUI	PMENT CUI	RRENTLY C	N SITE		MATER	IALS DEL	IVERED TO SITE			
Backhoe John D		THE CONTRACT OF	0	hours	None	LILO DEL	TO STILL			
Caterpillar CB2			0	hours						
Ingell Rand SD			0	hours						
Hyster 210 Fork			0	hours						
450 Cat bulldoz			0	hours						
John Deere 50 C	Excavator		0	hours	1					
NONCONFOR	RMANCE NO	TED						WHO WAS NOT	TIFIED?	
None noted.										
SAFETY CON	CERNS NOT	ΓED						WHO WAS NO	TIFIED?	
None noted.										
WORK COMP										
Ampere Elec	etric Co. pulled	d elecrical wir	e through un	derground cor	ndiut for ser	vice to the	site trailers.			
NOTES/ISSUE	ES									
None noted										
Prepared By:	G. Jones									

ecolo	gy and o	environ	ment, i	inc.			DAILY FIELI Date:	06/07/05	50 Day:	Tuesday
	roject Title: Project No.:			Support Facility	y Modificat	ions		Client:	ODEQ	
Weat	her			Ten	nperature			Site Conditi	ons	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x x x	- - - - -		Morning: Midday: Afternoon:	50 56 64	°f °F °F		Clean: Dusty: Muddy: Other:	X	
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub			Crew Size				Remarks			
Ampere Electric			2	Wilder's electr	rical subcor	itractor				
Wilder Construc	tion		0	Prime Contrac						
VISITORS										
Time In	Time Out		Name			Repres	enting		Remarks	
					_					
MAJOR EQUI	PMENT CUI	RRENTLY (ON SITE		MATERI	ALS DELI	IVERED TO SITE			
Backhoe John D Caterpillar CB22	eer 310E		0		None					
Caterpillar CB22	24P Roller		0							
Ingresoll Rand S	D 100D Rolle	er	0							
Hyster 210 Fork 450 Cat bulldoze	lift		0		-					
John Deere 50 C			0	hours	1					
		TED		110410	<u> </u>			WHO WAS NOT	TEIED9	
NONCONFOR None noted.	MANUE NO	LED						WHO WAS NOT	Tried;	
rone noted.								l		
SAFETY CON	CERNS NOT	FD						WHO WAS NOT	TEIED?	
None noted.	CERTSTOI	LD						WHO WAS NOT	TITLD.	
								l.		
WORK COMP	LETED									
		nued installati	ion of the ele	ectrical panels a	and meters.	PGE comp	oleted electrical drop	from new utility po	oles.	
- I III-pere Erec				punero c		c	IIIIIII arop			
NOTES/ISSUE	9									
NOTES/ISSUE None noted	J.									
1 tone noted										
Prepared By:	G. Jones									

ecolo	gy and o	environ	ment, i	nc.		DAILY FIELI Date:	06/08/05	ednesday
	-	McCormick a		Support Facility	/ Modifications		Client: ODEQ	
Weat	her			Ten	iperature		Site Conditions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x	• • • • •	·	Morning: Midday: Afternoon:	50 °f 56 °F 74 °F		Clean: Dusty: x Muddy: Other:	
CONTRACTO	D(C)/CUDCO	NTD A CTOI	D(C)					
Contractor/Sub		NIKACIOF	Crew Size			Remarks		
Ampere Electric			2	None		11011111111		
Wilder Construc			0	None				
VISITORS		<u> </u>	-					
Time In	Time Out		Name		Repr	esenting	Remarks	
13:10			Kevin Parre	ett	Γ	DEQ	Weekly Progress Meetings	
11:00		Ale	exander Whi	tman		Environment, Inc.	Weekly Progress Meetings	
13:30		C	had Nancari	row		Environment, Inc.	Weekly Progress Meetings	
MAJOR EQUI	PMENT CUI	RRENTLY O	N SITE		MATERIALS DE	LIVERED TO SITE		
Backhoe John D			0	hours	None			
Caterpillar CB22			0	hours				
Ingresoll Rand S		er	0	hours				
Hyster 210 Fork			0	hours				
450 Cat bulldoze			0	hours				
John Deere 50 C			0	hours				
NONCONFOR	MANCE NO	TED					WHO WAS NOTIFIED?	
None noted.								
SAFETY CON	CERNS NOT	TED					WHO WAS NOTIFIED?	
None noted.								
WORK COMP		lacad charlance	11ation - C 1	sataisal !	to the site to the C	No other word word	l \	
1. Ampere Elect	iric Co. comp	ietea the insta	nation of ele	ectrical service	to the site trailers. (No other work perforn	ieu)	
NOTES/ISSUE								
Weekly Progress	Meeting con	ducted today.						
Prepared By:	G. Jones							

ecolog	gy and o	environ	ment, i	nc.			DAILY FIELI Date:	06/21/05	Tuesday
	roject Title: Project No.:			Support Facility	Modificat	ions		Client: ODEQ	
Weatl	her	•		Tem	perature			Site Conditions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x x	- - - - -		Morning: Midday: Afternoon:	62 78 83	°f °F °F		Clean: Dusty: x Muddy: Other:	
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)						
Contractor/Sub			Crew Size				Remarks		
Wilder Construc			0	None					
SMC Building E	rectors		2	None					
VISITORS					1				
Time In	Time Out		Name				esenting	Remarks	
9:30	11:30		Erin Hale		Ecol	ogy and E	Environment, Inc.	Operations and Maintenanc	e
MAJOR EQUI	PMENT CIT	DDFNTI V (ON SITE		MATERI	ALSDE	LIVERED TO SITE		
Genie Manlift	WENT COL	KKENILI (5	hours	None	ALS DE	LIVERED TO SITE		
Gradall 534B			3	hours	TTORIC				
Ingresoll Rand S	D 100D Rolle	er	0	hours					
Hyster 210 Fork	lift		0	hours					
450 Cat bulldoze			0	hours					
John Deere 50 C			0	hours	<u> </u>			Т	
NONCONFOR None noted.	MANCE NO	TED						WHO WAS NOTIFIED?	
None noted.									
CAPPEN CON	CEDNG NOT	ED						WILL WAS NOTHING	
SAFETY CONO None noted.	LEKNS NOT	ED						WHO WAS NOTIFIED?	
None noted.									
WORK COMP	LETED								
SMC Buildin		talled the bui	ilding corner	posts and side	beams with	bracing.			
NOTES/ISSUE	<u> </u>			-					
None									
Prepared By:	G. Jones								

ecolog	gy and e	environ	ment, i	nc.			DAILY FIELD	06/22/05	61 Day: _	Wednesday
	roject Title: Project No.:			Support Facility	y Modificat	ions		Client:	ODEQ	
Weatl	her			Ten	nperature			Site Condit	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x x			Morning: Midday: Afternoon:	59 66 70	°f °F °F		Clean: Dusty: Muddy: Other:	x	
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub			Crew Size				Remarks			
Wilder Construc	tion		0	None						
SMC Building E	rectors		2	None						
VISITORS										
Time In	Time Out		Name			Repre	senting		Remarks	
11:45			Steve Campl	ell		OD	DEQ	Weekly F	Progress Me	eting
11:45			Kevin Parre	ett		OD	DEQ	Weekly F	Progress Me	eting
10:15		Al	lexander Wh	itman		Εδ	&Е	Weekly F	Progress Me	eting
MAJOR EQUI	PMENT CUI	RRENTLY (ON SITE		MATERI	ALS DEL	IVERED TO SITE			
Genie Man lift			6		None					
Gradall 534B	D 100D D II		4	hours						
Ingresoll Rand S		er	0	hours						
Hyster 210 Forkl 450 Cat bulldoze			0	hours						
John Deere 50 C			0	hours						_
NONCONFOR		TFD			ı			WHO WAS NO	TIFIED?	
None noted.	MITTELITO	ILD						WHO WAS NO	TIFIED.	
rione notes.										
SAFETY CON	CERNS NOT	ED						WHO WAS NO	TIFIED?	
None noted.	0214.101101							***************************************		
WORK COMP	LETED									
1. SMC Buildin	g Erectors ins	talled the gir	ders and raft	ers for the shop	building re	oof.				
NOTES/ISSUE	s									
None										
Prepared By:	G. Jones									

							DAILY FIELD	REPORT NO.:	62	
(a)		•					Date:	06/23/05	Day:	Thursday
ecolo	gy and e	environ	ment, i	nc.						
	-			Support Facility	Modificat	ions		Client:	ODEQ	
E & E I	Project No.:	001688.OY	14.25							
Weat	her		,	Tem	perature		-	Site Condi	tions	
Clear:	х			Morning:	60	°f		Clean:		
Part Cldy:	Α	•		Midday:	65	°F			X	
Overcast:		•		Afternoon:	70	°F		Muddy:		
Rain:		·						Other:		
Fog:		-								
Snow: Other:										
o uner:		•			_					
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub	contractor		Crew Size				Remarks			
Ampere Electric SMC Building E			4 2	None						
<u> </u>	rectors		2	None						
VISITORS	T: O4		Name			Donno	senting		Remarks	
10:50	Time Out	A 1			East		_	Cita		
10.30	2:45	Al	lexander Whi	uman	ECOL	ogy and E	nvironment, Inc.	Site	Inspection	
MAJOR EQUI	PMENT CUI	RRENTLY (ON SITE		MATERI	ALS DEL	IVERED TO SITE			
Genie Man lift			7.5	hours	None					
Gradall 534B			6	hours						
Ingell Rand SD			0	hours						
Hyster 210 Fork 450 Cat bulldoze			0	hours hours						
John Deere 50 C			0	hours						
NONCONFOR		TED						WHO WAS NO	TIFIED?	
None noted.									·	
SAFETY CON	CERNS NOT	ED						WHO WAS NO	TIFIED?	
None noted.										
WORK COMP	LETED									
SMC Buildin		ntinued build	ing erection.							
Ampere elect	ric installed lu	ıminaries pol	le and light.			_				
NOTES/ISSUE	S									
None										
Prepared By:	G. Jones									

ecolo	gy and (environme	ent, i	nc.		DAILY FIELE Date:	06/24/05	63 Day:	Friday
	•	McCormick and 001688.OY14.25		Support Facilit	y Modifications		Client:	ODEQ	
Weat	her	_		Ten	nperature		Site Condit	ions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X X	- - - - -		Morning: Midday: Afternoon:	57 °f 64 °F 74 °F		Clean: Dusty: Muddy: Other:	х	
CONTRACTO	R(S)/SURCO	ONTRACTOR(S)							
Contractor/Sub	. ,		ew Size			Remarks			
Anctil Plumbing	<u> </u>			None					
SMC Building I	Erectors		2	None					
VISITORS									
Time In	Time Out		Name		Repres	senting		Remarks	
MAJOR EQUI	PMENT CUI	RRENTLY ON S	ITE		MATERIALS DEL	IVERED TO SITE			
Genie Man lift			5.5	hours	None				
Gradall 534B			3	hours					
Ingresoll Rand S		er	0	hours					
Hyster 210 Fork			0	hours					
450 Cat bulldoz			0	hours					
John Deere 50 C			0	hours					
NONCONFOR	MANCE NO	TED					WHO WAS NOT	TIFIED?	
None noted.									
SAFETY CON	CERNS NOT	TED					WHO WAS NOT	TIFIED?	
None noted.									
WORK COMP									
SMC Buildin	g Erectors ins	stalled 50% of sho	p buildii	ng roof panels		·			
2. Anctil Plumb	ıng installed e	yewash and pressi	ure redu	cing valve on t	he water supply line				
NOTES/ISSUE	S								
None									
Prepared By:	G. Jones								

							DAILY FIELI	REPORT NO.	: 64	
ecolo	gy and	environ	ment, i	inc.			Date:	06/27/05	_ Day:	Monday
	roject Title: Project No.:			Support Facility	y Modificat	tions		Client:	ODEQ	
Weat	her	_		Ten	nperature			Site Cond	itions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X X	- - - - -		Morning: Midday: Afternoon:	58 62 67	°f °F °F		Clean: Dusty: Muddy: Other:		
CONTRACTO	R(S)/SUBCC	ONTRACTO	R(S)							
Contractor/Sul			Crew Size				Remarks			
SMC Building I	Erectors		2	None						
VISITORS										
Time In	Time Out		Name			Repr	esenting		Remarks	
MA IOD FOU	DIMENIT CHI	DDENWY X	ON CUEE		NA A TEND	LALCRE	I HARDED TO CITE			
MAJOR EQUI Genie Man lift	PMENT CU	RRENTLY (1			LIVERED TO SITE			
Gradall 534B			<u>3</u>	hours hours	septic tan	k (under t	raner)			
Ingresoll Rand S	SD 100D Roll	er	0							
Hyster 210 Fork			0							
450 Cat bulldoz			0							
John Deere 50 C	C Excavator		0	hours						
NONCONFOR	MANCE NO	TED						WHO WAS NO	TIFIED?	
None noted.										
								ı		
SAFETY CON	CERNS NOT	ΓED						WHO WAS NO	TIFIED?	
None noted.										
WORK COMP		1 . 11 .	11 - 2 - 0 -1		0 1					
SMC Buildir	ng Erectors co	mpleted insta	illation of the	shop building	roof panels	S.				
NOTES/ISSUE	S									
None										
Prepared By:	G. Jones									

ecolo	gy and o	environ	ment, i	inc.			DAILY FIELI Date:	06/28/05	65 Day:	Tuesday
	roject Title: Project No.:			Support Facility	/ Modificat	ions		Client:	ODEQ	
Weat	her			Ten	perature			Site Conditi	ons	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X			Morning: Midday: Afternoon:	60 65 70	°f °F °F		Clean: Dusty: Muddy: Other:	x	
CONTRACTO	D(S)/SHDCO	NTDACTO	D(S)							
Contractor/Sub		TTRACTO	Crew Size				Remarks			
SMC Building E			2	Wilder's subco	ontractor					
VISITORS	1	1						1		
Time In	Time Out		Name			Repres	senting		Remarks	
MAJOR EQUI	PMFNT CIII	PRENTLY (ON SITE		MATER	IALS DEL	IVERED TO SITE			
Genie Man lift	I MENT COL	KKENTET (2	hours	none	TILS DEL	IVERED TO SITE			
Gradall 534B			0							
Ingresoll Rand S		er	0	hours						
Hyster 210 Fork			0							
450 Cat bulldoze			0							
John Deere 50 C			0	hours				T		
NONCONFOR	MANCE NO	TED						WHO WAS NOT	TFIED?	
None noted.										
G L PROVI GOV	CERNO NOT	T.D.						NAME OF THE OWNER.	WEYED A	
SAFETY CON	CERNS NOT	ED						WHO WAS NOT	TFIED?	
None noted.										
WORK COM	LETER									
WORK COMP		latadinata	llatian aftha		a ahan hadi	din a and b.	ath man da ana			
SMC Buildin	g Electors coi	iipietea insta	nation of the	east wall of th	e snop buil	ung and bo	oui man doors.			
	~									
NOTES/ISSUE	S									
None										
Prepared By:	G. Jones									

ecolo:	gy and	environ	ment, i	nc.		DAILY FIELI Date:	06/30/05	67 Day:	Thursday
	-	McCormick : 001688.OY1		Support Facility	y Modifications		Client:	ODEQ	
Weat	her	_		Ten	nperature		Site Condit	ions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	- - - - -		Morning: Midday: Afternoon:	71 °F		Clean: Dusty: Muddy: Other:		
CONTRACTO	P(S)/SUBCO	NTRACTOI	R(S)						
Contractor/Sub		MIKACIOI	Crew Size			Remarks			
SMC Building E				None					
Ampere Electric			4						
VISITORS									
Time In	Time Out		Name		Repres	senting		Remarks	
						-			
MAJOR EQUI	PMENT CUI	RRENTLY C	ON SITE		MATERIALS DEL	IVERED TO SITE			
Genie Man lift			0	hours	none				
Gradall 534B	ID 100D D . II		0	hours					
Ingresoll Rand S Hyster 210 Fork		er	0	hours hours					
450 Cat bulldoze			0	hours					
John Deere 50 C			0	hours					
NONCONFOR	MANCE NO	TED					WHO WAS NOT	TIFIED?	
None noted.									
SAFETY CON	CERNS NOT	ΓED					WHO WAS NOT	TIFIED?	
None noted.									
WORK COM	. nann								
WORK COMP 1. SMC installe		for the buildin	a lauriara						
				ng electrical co	omponents.				
			or r	-6					
NOTES/ISSUE	S								
E&E directed W shop floor.	ilder to have	SMC personn	el install a ta	rp covering ov	ver the unfinished port	ion of the roof to prot	tect the insulation a	and material:	s staged on the
Prepared By:	G. Jones								

& acolor	gy and o	nviron	ment i	ne			DAILY FIELD Date:	REPORT NO.: 07/01/05		Friday
Pı		McCormick	and Baxter S	Support Facility	Modifications			Client:	ODEQ	
Weatl	her	1		Tem	perature			Site Condit	ions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x			Morning: Midday: Afternoon:	70 °	f F F		Clean: Dusty: Muddy: Other:		
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub			Crew Size				Remarks			
SMC Building E Ampere Electric	rectors		0	None						
	Co.		U							
VISITORS	Time Out		Name			Donusconti	I		Remarks	
Time In	Time Out		Name			Representi	ilig		Kemarks	
MAJOR EQUII	PMENT CUI	RRENTLY (ON SITE		MATERIAL	S DELIVE	RED TO SITE			
Genie Man lift			6	hours	none					
NONCONFOR	MANCE NO	TED			<u> </u>		ļ	WHO WAS NOT	TIFIED?	
NONCONFOR										
SAFETY CONC	CERNS NOT	ED					,	WHO WAS NOT	TIFIED?	
None noted.										
WORK COMP	LETED									
SMC worked		n of building	skin.							
NOTES/ISSUES	s									
None							_	_		
Prepared By:	J. Petersen									

ecolo	gy and 6	environ	ment, i	inc.			DAILY FIELE Date:	07/05/05	69 Day:	Tuesday
	roject Title: Project No.:			Support Facility	Modificat	ions		Client:	ODEQ	
Weat	her	ı		Tem	perature			Site Condi	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x			Morning: Midday: Afternoon:	65 80 85	°f °F °F		Clean: Dusty: Muddy: Other:		
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub	contractor		Crew Size				Remarks			
SMC Building E			2	None						
Ampere Electric	Co.		4							
VISITORS										
Time In	Time Out		Name			Repre	esenting		Remarks	
MAJOR EQUI	PMENT CUI	RRENTLY (ON SITE		MATERI	ALS DEI	LIVERED TO SITE			
NONCONFOR	MANCE NO	TED						WHO WAS NO	TIFIED?	
None noted.										
SAFETY CON	CERNS NOT	ED						WHO WAS NO	TIFIED?	
None noted.										
WORK COMP	LETED									
 SMC continu 										
Ampere Elec	tric worked or	installation	of Kindorf f	or electrical con	iduit suppo	rts, the int	erior light fixtures, an	d the interior elec	trical panel.	
NOTES/ISSUE	S									
None										
Prepared By:	J. Petersen									

1										
ecolog	gy and o	environ	ıment, i	inc.			DAILY FIEL Date	D REPORT NO.: 07/06/05		Wednesday
	roject Title: Project No.:			Support Facility	Modificat	ions		Client:	ODEQ	
Weatl	her			Tem	perature			Site Condi	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	- - - - - -		Morning: Midday: Afternoon:	55 65 80	°f °F °F		Clean: Dusty: Muddy: Other:		
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub	contractor		Crew Size				Remark	s		
SMC Building E	rectors		2	None				-		
Ampere Electric			0	rone						
VISITORS										
Time In	Time Out		Name			Rep	resenting		Remarks	
MAJOR EQUI	PMENT CUI	RRENTLY	ON SITE		MATERI	ALS DE	ELIVERED TO SITE	2		
NONCONFOR	MANCE NO	TED						WHO WAS NO	TIFIED?	
NONCONFOR None noted.										
SAFETY CONG	CERNS NOT	ED						WHO WAS NO	TIFIED?	
None noted.										
WORK COMP										
 SMC personn 	el worked on	final trim an	d fastener ins	stallation, caulk	ing, and di	ains.				
NOTES/ISSUE	S									
None										
Prepared By:	J. Petersen									

(f)					DAILY FIELI	D REPORT NO.:	71			
acolo:	ay and a	environment, i	ine		Date:	07/11/05	Day:	Monday		
O ecolo	gy anu e	environment, i	uic.							
	•	McCormick and Baxter S	Support Facility	Modifications		Client:	ODEQ			
Weat		001688.OY14.25	Tem	perature		Site Condit	ions			
***************************************			1011	perature	_	Site Conditions				
Clear:			Morning:	60 °f	_	Clean:				
Part Cldy:	X		Midday:	70 °F	_	Dusty:	X			
Overcast: Rain:			Afternoon:	75 °F	_	Muddy: Other:				
Fog:						Other.				
Snow:										
Other:										
CONTRACTO	R(S)/SUBCO	NTRACTOR(S)								
Contractor/Sub		Crew Size			Remarks					
SMC Building E		2	None							
Ampere Electric	Co.	0	rone							
VISITORS		<u>.</u>	•							
Time In	Time Out	Name		Re	epresenting		Remarks			
MAJOR EQUI	PMENT CUF	RRENTLY ON SITE		MATERIALS I	DELIVERED TO SITE					
NONCONFOR	MANCE NO	TED				WHO WAS NO	ΓIFIED?			
None noted.										
						1				
SAFETY CON	CERNS NOT	ED				WHO WAS NO	TIFIED?			
None noted.										
WORK COMP			1 0							
SMC personr	nel worked on	downspout installation as	nd roof crown.							
NOTES/ISSUE None	S									
None										
Prepared By:	J. Petersen									

ecolo	gy and o	environ	ment, i	nc.			DAILY FIELD	07/12/05	74 Day:	Tuesday
	roject Title: Project No.:			Support Facility	Modificat	ions		Client:	ODEQ	
Weat	her			Tem	perature			Site Conditi	ons	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x			Morning: Midday: Afternoon:	71	°f °F °F		Clean: Dusty: Muddy: Other:		
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub			Crew Size				Remarks			
SMC Building E				None						
Ampere Electric	Co.		2							
VISITORS										
Time In	Time Out		Name			Represe	enting		Remarks	
MAJOR EQUI		RRENTLY	ON SITE		MATERI	ALS DELF	VERED TO SITE			
NONCONFOR	MANCENO	TED						WILO WAS NOT	TELEDO	
NONCONFOR None noted.	MANCE NO	ILD						WHO WAS NOT	Tried;	
Trone noted.										
SAFETY CON	CERNS NOT	ED				-		WHO WAS NOT	TIFIED?	
None noted.										
WORK COM	LETER									
1. Ampere Elect		v interior lia	ht fivtures ne	r drawing num	her 8					
						e north of the	e hazardous materia	ls storage area in p	reparation for	or the
installation of th									· P · · · · · · ·	
NOTES/ISSUE	s									
The newly place	d buried elect	ric conduit w	as encounter	ed and broken o	during hole	digging ope	eration.			
Prepared By:	G. Jones									

(A)							DAILY FIE	LD R	EPORT NO.:	:75	
ecolo	gy and	environ	ment, i	inc.			Da	ite:	07/13/05		Wednesday
	roject Title: Project No.:			Support Facility	Modifica	tions			Client:	ODEQ	
Weat	her			Tem	perature				Site Condi	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X X	- - - - -		Morning: Midday: Afternoon:	60 74 80	°f °F °F	- - -		Clean: Dusty: Muddy: Other:		
CONTRACTO	R(S)/SUBCC	NTRACTO	R(S)								
Contractor/Sub	contractor		Crew Size				Remar	rks			
SMC Building E			0	None							
Wilder Construc			2								
Ampere Electric	Co.		2								
VISITORS		1									
Time In	Time Out		Name			Rep	resenting			Purpose	
10:15		Al	lexander Wh	itman	Eco	logy and	Environment, Inc.		Weekly P	rogress Meet	ting
12:30		J	ohn Montgoi		Eco		Environment, Inc.			rogress Meet	
12:00			Kevin Parre	ett		(ODEQ		Weekly P	rogress Meet	ting
MAJOR EQUI		RRENTLY (ON SITE		MATER	IALS DI	ELIVERED TO SIT	ГЕ			
NONCONFOR None noted.	MANCE NO	TED						W	HO WAS NO	TIFIED?	
SAFETY CONO None noted.	CERNS NOT	TED						W	HO WAS NO	TIFIED?	
WORK COMP 1. Ampere Electr 2. Wilder Constr	ric pulled wir				ng.						
NOTES/ISSUE											
Ampere Electi	ric repaired th	e undergrour	nd electric an	id telephone coi	nduit that	was dama	aged while boring bo	Ilard h	oles for the sh	op building.	
Prepared By:	G. Jones										

ecolo	gy and o	environ	ıment, i	inc.			DAILY FIELD	07/14/05	76 	Thursday
	roject Title: Project No.:			Support Facility	Modificat	ions		Client:	ODEQ	
Weat				Tem	perature			Site Condi	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	x x	- - - - - -		Morning: Midday: Afternoon:	59 76 87	°f °F °F		Clean: Dusty: Muddy: Other:	x	
CONTRACTO	R(S)/SUBCO	NTRACTO	PR(S)							
Contractor/Sub	contractor		Crew Size				Remarks			
SMC Building E	rectors		0	None						
Wilder Construc			2							
Ampere Electric			2							
VISITORS			•							
Time In	Time Out		Name			Repres	enting		Purpose	
MAJOR EQUI	PMENT CUI	RRENTLY	ON SITE		MATERI	ALS DELI	VERED TO SITE			
NONCONFOR	MANCE NO	TED						WHO WAS NO	TIFIED?	
None noted.										
SAFETY CON	CERNS NOT	ED						WHO WAS NO	TIFIED?	
None noted.										
WORK COMP	LETED									
 Ampere Electronic 										
2 Wilder Constru	uction continu	ed the instal	lation of boll	ards for the sho	p building	and hazardo	ous materials storage	area and are now	75% compl	ete.
NOTES/ISSUE	s									
None noted										
Prepared By:	G. Jones									

ecolo	gy and e	environ	nment, i	inc.			DAILY FIELD Date:	REPORT NO.: 07/15/05	77 Day:	Friday
	roject Title: Project No.:			Support Facility	Modificat	ions		Client:	ODEQ	
Weat	her			Tem	perature			Site Condit	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X			Morning: Midday: Afternoon:	63 78 92	°f °F °F		Clean: Dusty: Muddy: Other:	X	
CONTRACTO	R(S)/SUBCO	NTRACTO	PR(S)							
Contractor/Sub			Crew Size				Remarks			
SMC Building E			0	None						
Wilder Construc	tion		0							
Ampere Electric			2							
VISITORS			•	<u> </u>						
Time In	Time Out		Name			Repre	senting		Purpose	
							•			
MAJOR EQUI	PMENT CHE	DENTI V	ON SITE		MATERI	AI S DEI	IVERED TO SITE			
WINGOK EQUI	TIMEITT COL	CICETOTE !	ONSITE		MITTER	ALS DEL	IVERED TO SITE			
NONCONFOR	MANGENIO	TED			1			WILL WAS NOT	TITIEDA	
NONCONFOR None noted.	MANCE NO	IED						WHO WAS NO	HELD	
None noted.										
	~~~~~~									
SAFETY CON	CERNS NOT	ED						WHO WAS NO	TIFIED?	
None noted.										
WORK COMP										
1. Ampere Elect					cles.					
<ol><li>Wilder Constr</li></ol>	ruction installe	d the under	trailer septic	tank.						
NOTES/ISSUE	S									
None noted										
Prepared By:	G. Jones									

(n)							DAILY FIELD	REPORT NO.:	78	
&J ecolo	gy and o	environ	ment i	ne			Date:	07/18/05	Day:	Monday
Ceoro	gy ana (		iniciit, i	iic.						
	roject Title: Project No.:			Support Facility	/ Modificat	ions		Client:	ODEQ	
Weat	her			Tem	perature			Site Conditi	ons	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	- - - -		Morning: Midday: Afternoon:	89	°f °F °F		Clean: Dusty: Muddy: Other:		
CONTRACTO	R(S)/SUBCO	NTRACTO	PR(S)							
Contractor/Sub			Crew Size				Remarks			
SMC Building E	Erectors		0	None						
Wilder Construc	ction		1							
Ampere Electric	Co.		0							
VISITORS										
Time In	Time Out		Name			Repr	esenting		Purpose	
MAJOR EQUI	PMFNT CIII	DDFNTI V	ON SITE		MATERI	AIS DE	LIVERED TO SITE			
WINGON EQUI	T MENT CO.	KKENTET	ONSITE		WITTER	ALS DE	LIVERED TO SITE			
NONCONFOR	MANCE NO	TED						WHO WAS NOT	TIFIED?	
None noted.										
SAFETY CON	CERNS NOT	ED						WHO WAS NOT	TFIED?	
None noted.										
	v pap~									
WORK COMP		to the weter	aummly line t	a tha aguinman	t trailara					
Wilder made:	an aujustinent	to the water	suppry time t	o die equipmen	n namers.					
NOTES/ISSUE	'S									
None noted.	1.5									
Prepared By:	G. Jones									

							DAILY FIELI	REPORT NO.:	79	
&J ecolo	gy and o	environ	ıment i	ine			Date:	07/19/05	Day:	Tuesday
Ceord	gy and t			uic.						
	roject Title: Project No.:			Support Facility	Modificat	ions		Client:	ODEQ	
Weat	her	•		Tem	perature			Site Condit	ions	
Clear: Part Cldy: Overcast: Rain: Fog:	X	- - - -		Morning: Midday: Afternoon:		°F °F		Clean: Dusty: Muddy: Other:	Х	
Snow: Other:		<del>-</del> -			-					
CONTRACTO	R(S)/SUBCO	NTRACTO	PR(S)							
Contractor/Sub			Crew Size				Remarks	i		
SMC Building I	Erectors		0	None						
Wilder Construc	ction		0							
Ampere Electric	Co.		2							
VISITORS										
Time In	Time Out		Name			Repr	esenting		Purpose	
MAJOR EQUI	PMENT CUI	RRENTLY	ON SITE		MATERI	ALS DE	LIVERED TO SITE			
NONCONFOR	MANCE NO	TED						WHO WAS NO	CIEIED9	
None noted.	MANCENO	TED						WIIO WAS NO	HILD:	
rone noted.								I		
SAFETY CON	CERNS NOT	TED						WHO WAS NO	TIFIED?	
None noted.										
WORK COMP	LETED									
<ol> <li>Ampere Elect</li> </ol>	ric installed b	oth heaters, t	the louver an	d fan for the sou	ith end of t	he shop b	uilding, and completed	d the overhead ligh	t installation	1S.
NOTES/ISSUE	S									
None noted.										
Prepared By:	G. Jones									

							DAILY FIELD	REPORT NO.:	81	
& ecolo	gy and o	environ	ıment. i	inc.			Date:	07/21/05	Day:	Thursday
O CCOLO	5.									
	roject Title: Project No.:			Support Facility	Modificati	ions		Client:	ODEQ	
Weat	her			Tem	perature			Site Conditi	ons	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	- - -		Morning: Midday: Afternoon:	60 78 92	°f °F °F		Clean: Dusty: Muddy: Other:		
Other.		-			-					
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub			Crew Size				Remarks			
SMC Building E			3	None						
Wilder Construc			0							
Ampere Electric	Co.		4							
VISITORS										
Time In	Time Out		Name			Repre	esenting		Purpose	
					1					
MAJOR EQUI	PMENT CUI	RRENTLY	ON SITE		MATERI	ALS DEI	LIVERED TO SITE			
NONCONFOR	MANCE NO	TED						WHO WAS NOT	TELED9	
NONCONFOR None noted.	MANCE NO	TED						WHO WAS NOT	IFIED;	
None noted.										
SAFETY CON	CERNS NOT	TED						WHO WAS NOT	TFIED?	
None noted.										
WORK COMP										
1. Ampere Electr				ctrical compone	ents 100% j	per contra	ct drawings.			
SMC installed	the gables to	r the shop bu	ııldıng.							
NOTES/ISSUE	C									
None noted.	3									
None noted.										
Prepared By:	G. Jones									

ecolog	gy and e	environ	ment, i	nc.			DAILY FIELD Date:	07/22/05		Friday
	roject Title: Project No.:			Support Facility	Modificat	ions		Client:	ODEQ	
Weatl	ner			Tem	perature			Site Condi	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X			Morning: Midday: Afternoon:		°f °F °F		Clean: Dusty: Muddy: Other:	<u>x</u>	
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub			Crew Size				Remarks			
Overhead Door o Wilder Construct			2	None						
Ampere Electric			0							
VISITORS										
Time In	Time Out		Name			Repr	esenting		Purpose	
9:10	10:15		Heidi Blich	le		Ol	DEQ		NAPL	
MAJOR EQUI	PMENT CUE	RRENTLY (	ON SITE		MATERI	ALS DEI	LIVERED TO SITE			
NONCONFOR	MANCE NO	TED						WHO WAS NO	TIFIED?	
SAFETY CONC None noted.	CERNS NOT	ED						WHO WAS NO	TIFIED?	
WORK COMP		f Portland ins	stalled two g	arage doors for	the shop b	uilding.				
NOTES/ISSUES The bank of ceili		he north end	of the buildi	ng is not operat	ional. E&l	E informe	d Wilder			
Prepared By:	G. Jones									

(h							DAILY FIELD	REPORT NO.:	84	
&				,			Date:	07/26/05	Day:	Tuesday
ecolo	gy and o	environ	ıment, 1	nc.						
	-			Support Facility	Modificat	ions		Client:	ODEQ	
E & E 1	Project No.:	001688.OY	14.25							
Weat	her	•		Tem	perature		_	Site Condit	tions	
Clear:	x			Morning:	73	°f		Clean:		
Part Cldy:		-		Midday:	82	°F		Dusty:	X	
Overcast:		-		Afternoon:	91	°F		Muddy:		
Rain:	-							Other:		
Fog:		-								
Snow:		-								
Other:		_								
		-'			•					
CONTRACTO		NTRACTO	T							
Contractor/Sub			Crew Size				Remarks			
Overhead Door			0	None						
Wilder Construc			1							
Ampere Electric	Co.		0							
VISITORS										
Time In	Time Out		Name			Repr	esenting		Purpose	
MA IOD FOU	DMENT CHI	DDENIEL X	ON CITE		MATERI	ALCDE	WEDED TO SITE			
MAJOR EQUI	PMENT CUI	RRENILY	ON SITE				gs of concrete.			
VONCONTOR	NA LINGE NO	men.			o - eignty	pound bag			TYPYPDA	
Nonconfor	MANCE NO	TED					V	VHO WAS NO	HFIED?	
None noted.										
G A FERTIL GOV	OPPNO NOT								TYPYPDA	
SAFETY CON	CERNS NOT	ED					V	VHO WAS NO	HFIED?	
None noted.										
WORK SST	x none									
WORK COMP		aanarsts is -	ida tha ====	ning hallands C	or tha alaa	huildin.				
Wilder Constr	ruction placed	concrete ins	ide the remai	ning bonards fo	or the shop	oullaing.				
NOTES/ISSUE	S									
None										
Prepared By:	G. Jones									

(h)							DAILY FIELD	REPORT NO.:	85	
ecolo	gy and o	environ	ıment, i	inc.			Date:	07/27/05	Day:	Wednesday
00010	SJ	DIR VER U.	Hironity -							
	roject Title: Project No.:			Support Facility	y Modificat	ions		Client:	ODEQ	
Weat				Ten	nperature		. <u>-</u>	Site Conditi	ons	
Clear:	х	•		Morning:	77	°f	•	Clean:		
Part Cldy:		-		Midday:		°F		Dusty:	X	
Overcast:		•		Afternoon:	94	°F	-	Muddy:		
Rain:		<u>.</u>					•	Other:		
Fog:		=								
Snow:		-								
Other:		-			_					
CONTRACTO	R(S)/SUBCO	ONTRACTO	OR(S)							
Contractor/Sub	ocontractor		Crew Size				Remarks			
Overhead Door	of Portland		0	None						
Wilder Construc	ction		1							
Ampere Electric	Co.		0							
VISITORS							<u> </u>			
Time In	Time Out		Name			Repr	resenting		Purpose	
					<u> </u>					
MAJOR EQUI	DMENT CIII	DDENTI V	ON SITE		MATEDI	IAI C DE	ELIVERED TO SITE			
MAJOR EQUI	I MENT CO	KKENILI	ONSITE				ags of concrete.			
NONCONFOR	MANCE NO	TED			, v.8)	Females		WHO WAS NOT	TEIED?	
None noted.	MANCENO	TED						WIIO WAS NOT	IFIED:	
Ivolic noted.							1			
SAFETY CON	CERNS NOT	ren					V	WHO WAS NOT	TEIED?	
None noted.	CERITO ITO	ED						WHO WHO INC.	IFIED.	
110111111111111111111111111111111111111										
WORK COMP	DI ETED									
		d (caution ve	allow) all of t	he bollards for	the shop by	ilding ar	nd hazardous storage area	1		
1. White College	ruction paints	a (caanon , .	non jun or a	ile bollurus re-	the shop ca	manig	id ildzardoub storage			
NOTES/ISSUE	10									
None	n3									
TVOICE										
Prepared By:	G. Jones									

ecolo	gy and e	environ	ıment, i	inc.			DAILY FIELD Date:	<b>REPORT NO.:</b> 07/28/05	86 Day:	Thursday
	roject Title: Project No.:			Support Facility	Modificat	ions		Client:	ODEQ	
Weat	her			Tem	perature		_	Site Condit	tions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X			Morning: Midday: Afternoon:	59 78 85	°f °F °F		Clean: Dusty: Muddy: Other:	X	
CONTRACTO	R(S)/SURCO	NTRACTO	R(S)							
Contractor/Sub		· · · · · · · · · · · · · · · · · · ·	Crew Size				Remarks			
SMA Building E			0	None						
Wilder Construc	tion		1	110110						
Ampere Electric			2							
VISITORS			<u></u>							
Time In	Time Out		Name			Repr	esenting		Purpose	
					•					
MAJOR EQUI	PMENT CUE	RENTLY	ON SITE		MATERI	ALS DEI	IVERED TO SITE			
			0110112				shop building work be	ench		
NONCONFOR	MANCE NO	TED			- compone		1		TIELEDO	
NONCONFOR None noted.	MANCE NO	IED						WHO WAS NO	HELL	
None noted.										
G A PERSONAL GOVE	OPPNO NOT	ED							TIPIPA	
SAFETY CON	CERNS NOT	ED						WHO WAS NO	TIFIED?	
None noted.										
WORK COMP										
1. Ampere Elect							1.1'			
<ol><li>Wilder Constr</li></ol>	ruction remove	ed concrete o	covering the i	monitoring well	s within th	e shop bu	lding			
	~									
NOTES/ISSUE None	S									
ivone										
Prepared By:	G. Jones									

<u>m</u>							DAILY FIELD	REPORT NO.:	87	
&J .							Date:	07/29/05	Day:	Friday
Pi	gy and or roject Title: Project No.:	McCormick	and Baxter	inc. Support Facility	Modificat	ions		Client:	ODEQ	
Weat	her			Tem	perature		·	Site Condit	ions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	- - - - -		Morning: Midday: Afternoon:	65 77 88	°f °F °F		Clean: Dusty: Muddy: Other:		
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub			Crew Size				Remarks			
SMA Building E	Erectors		0	None						
Wilder Construc	ction		1							
Ampere Electric	Co.		0							
VISITORS										
Time In	Time Out		Name			Repre	senting		Purpose	
					1					
MAJOR EQUI	PMENT CUI	RRENTLY (	ON SITE			ALS DEL	IVERED TO SITE			
					none					
NONCONFOR	MANCE NO	TED						WHO WAS NO	rified?	
None noted.										
SAFETY CON	CERNS NOT	FD						WHO WAS NO	rified?	
None noted.	CERNSTIOI	LD						WHO WAS NO	HILD.	
WORK COMP										
Wilder Constr	ruction contin	ued to addres	ss punch list	items (see attacl	ned punch	list).				
NOTES/ISSUE	S									
None										
Prepared By:	G. Jones									

ecolo;	gy and e	environ	ment, i	inc.			DAILY FIEL	08/01/05		Monday
	roject Title: Project No.:			Support Facility	Modificat	ions		Client:	ODEQ	
Weat	her	_		Tem	perature			Site Conditi	ions	
Clear: Part Cldy: Overcast: Rain: Fog: Snow: Other:	X	- - - - -		Morning: Midday: Afternoon:		°f °F °F		Clean: Dusty: Muddy: Other:		
CONTRACTO	R(S)/SUBCO	NTRACTO	R(S)							
Contractor/Sub	contractor		Crew Size				Remarks			
SMA Building E	rectors		0	None						
Wilder Construc			0							
Ampere Electric	Co.		1							
VISITORS										
Time In	Time Out		Name			Repr	esenting		Purpose	
					1					
MAJOR EQUI	PMENT CUF	RRENTLY (	ON SITE		MATER	IALS DE	LIVERED TO SITE			
					none					
NONCONFOR	MANCE NO	TED						WHO WAS NOT	TIFIED?	
None noted.										
								I		
SAFETY CON	CERNS NOT	ED						WHO WAS NOT	TIFIED?	
None noted.										
WORK COMP	LETED									
WORK COMP 1. Ampere Electr		installed the o	correct therm	ostat for the ex	haust fan a	nd louvers	3			
1. 7 impere Erecu	rie personner i	instance the C	Torrect therm	ostat for the ex	naust run u	na rouvers	j.			
NOTES/ISSUE	c c									
	ems not compl		ing on the pu	nch list.( Item #	# 1. comple	te installa	tion of there shop buil	ding work bench).	(Item # 2 cor	rect plumbing
competion to the	. accontaining									
Prepared By:	G. Jones									

<b>L</b>						DAILY FIELD			
ecolos	gy and o	environi	ment. i	inc.		Date:	08/03/05	Day:	Wednesday
00000	<b>5</b> /	-11 . 11 011							
	•			Support Facility	Modifications		Client:	ODEQ	
E & E F	Project No.:	001688.OY1	4.25						
Weatl	her	-		Tem	perature	=	Site Condi	tions	
Clear:	X	=		Morning:	61 он		Clean:	X	
Part Cldy:		=.		Midday:	87 °F		Dusty:		
Overcast:		=		Afternoon:	94 °F		Muddy: Other:		
Rain: Fog:		_					Other:		
Snow:		-							
Other:		-							
		_							
CONTRACTO									
Contractor/Sub			Crew Size			Remarks			
SMA Building E	Erectors		1	None					
Wilder Construc Ampere Electric	Co		0						
_	C0.		0						
VISITORS									
					_			_	
Time In	Time Out		Name		Represen	ŭ		Purpose	
11:30	5:15		Kevin Parr		DEQ		Weekly Progress	s Meeting fo	
11:30 11:30	5:15 3:00	Jo	Kevin Parro hn Montgo	mery	DEQ Ecology and Envir	ronment, Inc.	Weekly Progress	s Meeting fo	r CAP
11:30	5:15	Jo	Kevin Parr	mery	DEQ	ronment, Inc.		s Meeting fo	r CAP
11:30 11:30 12:00	5:15 3:00 4:00	Jo C	Kevin Parrohn Montgo Chad Nancar	mery	DEQ Ecology and Envir Ecology and Envir	ronment, Inc.	Weekly Progress	s Meeting fo	r CAP
11:30 11:30	5:15 3:00 4:00	Jo C	Kevin Parrohn Montgo Chad Nancar	mery	DEQ Ecology and Envir	ronment, Inc.	Weekly Progress	s Meeting fo	r CAP
11:30 11:30 12:00 MAJOR EQUII	5:15 3:00 4:00 PMENT CUI	Jo C RRENTLY O	Kevin Parrohn Montgo Chad Nancar	mery	DEQ Ecology and Envir Ecology and Envir	ronment, Inc.	Weekly Progress Weekly Progress	s Meeting fo s Meeting fo s Meeting fo	r CAP
11:30 11:30 12:00 MAJOR EQUII	5:15 3:00 4:00 PMENT CUI	Jo C RRENTLY O	Kevin Parrohn Montgo Chad Nancar	mery	DEQ Ecology and Envir Ecology and Envir	ronment, Inc.	Weekly Progress	s Meeting fo s Meeting fo s Meeting fo	r CAP
11:30 11:30 12:00 MAJOR EQUII	5:15 3:00 4:00 PMENT CUI	Jo C RRENTLY O	Kevin Parrohn Montgo Chad Nancar	mery	DEQ Ecology and Envir Ecology and Envir	ronment, Inc.	Weekly Progress Weekly Progress	s Meeting fo s Meeting fo s Meeting fo	r CAP
11:30 11:30 12:00 MAJOR EQUII	5:15 3:00 4:00 PMENT CUI	Jo C RRENTLY O	Kevin Parrohn Montgo Chad Nancar	mery	DEQ Ecology and Envir Ecology and Envir	ronment, Inc. ronment, Inc. ERED TO SITE	Weekly Progress Weekly Progress	s Meeting fo s Meeting fo s Meeting fo voil the second of the second voil the second of the second of the second voil the second of the second	r CAP
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11:30 11:30 12:00 MAJOR EQUII NONCONFOR None noted.	5:15 3:00 4:00 PMENT CUI	Jo C RRENTLY O	Kevin Parrohn Montgo Chad Nancar	mery	DEQ Ecology and Envir Ecology and Envir	ronment, Inc. ronment, Inc. ERED TO SITE	Weekly Progress Weekly Progress	s Meeting fo s Meeting fo s Meeting fo voil the second of the second voil the second of the second of the second voil the second of the second	r CAP
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11:30 11:30 12:00  MAJOR EQUII  NONCONFOR None noted.  SAFETY CONO None noted.	5:15 3:00 4:00  PMENT CUI  MANCE NO  CERNS NOT	Jo C RRENTLY O OTED	Kevin Parro ohn Montgo Chad Nancar ON SITE	mery	DEQ Ecology and Envir Ecology and Envir	ronment, Inc. ronment, Inc. ERED TO SITE	Weekly Progress Weekly Progress	s Meeting fo s Meeting fo s Meeting fo voil the second of the second voil the second of the second of the second voil the second of the second	r CAP
11:30 11:30 12:00  MAJOR EQUII  NONCONFOR None noted.  SAFETY CONO None noted.	5:15 3:00 4:00  PMENT CUI  MANCE NO  CERNS NOT	Jo C RRENTLY O OTED	Kevin Parro ohn Montgo Chad Nancar ON SITE	mery	DEQ Ecology and Envir Ecology and Envir	ronment, Inc. ronment, Inc. ERED TO SITE	Weekly Progress Weekly Progress	s Meeting fo s Meeting fo s Meeting fo voil the second of the second voil the second of the second of the second voil the second of the second	r CAP
11:30 11:30 12:00  MAJOR EQUII  NONCONFOR None noted.  SAFETY CONO None noted.	5:15 3:00 4:00  PMENT CUI  MANCE NO  CERNS NOT	Jo C RRENTLY O OTED	Kevin Parro ohn Montgo Chad Nancar ON SITE	mery	DEQ Ecology and Envir Ecology and Envir	ronment, Inc. ronment, Inc. ERED TO SITE	Weekly Progress Weekly Progress	s Meeting fo s Meeting fo s Meeting fo voil the second of the second voil the second of the second of the second voil the second of the second	r CAP
11:30 11:30 12:00  MAJOR EQUII  NONCONFOR None noted.  SAFETY CONO None noted.  WORK COMP 1. SMA Building	5:15 3:00 4:00  PMENT CUI  MANCE NO  CERNS NOT	TED Jo	Kevin Parrobhn Montgo Chad Nancar  DN SITE  er building	mery frow	DEQ Ecology and Envir Ecology and Envir	ronment, Inc. ronment, Inc. ERED TO SITE	Weekly Progress Weekly Progress WHO WAS NO	s Meeting fo s Meeting fo s Meeting fo s Meeting fo vTIFIED?	т САР
11:30 11:30 12:00  MAJOR EQUII  NONCONFOR None noted.  SAFETY CONO None noted.  WORK COMP 1. SMA Building	5:15 3:00 4:00  PMENT CUI  MANCE NO  CERNS NOT	TED Jo	Kevin Parrobhn Montgo Chad Nancar  DN SITE  er building	mery frow	DEQ Ecology and Envir Ecology and Envir MATERIALS DELIV none	ronment, Inc. ronment, Inc. ERED TO SITE	Weekly Progress Weekly Progress WHO WAS NO	s Meeting fo s Meeting fo s Meeting fo s Meeting fo vTIFIED?	т САР
11:30 11:30 12:00  MAJOR EQUID  NONCONFOR  None noted.  SAFETY CONC  None noted.  WORK COMP  1. SMA Building  NOTES/ISSUE  All shop buildin	5:15 3:00 4:00  PMENT CUI  MANCE NO  CERNS NOT  LETED g Erectors ins	TED Jo	Kevin Parrobhn Montgo Chad Nancar  DN SITE  er building	mery frow	DEQ Ecology and Envir Ecology and Envir MATERIALS DELIV none	ronment, Inc. ronment, Inc. ERED TO SITE	Weekly Progress Weekly Progress WHO WAS NO	s Meeting fo s Meeting fo s Meeting fo s Meeting fo vTIFIED?	т САР
11:30 11:30 12:00  MAJOR EQUII  NONCONFOR None noted.  SAFETY CONO None noted.  WORK COMP 1. SMA Building	5:15 3:00 4:00  PMENT CUI  MANCE NO  CERNS NOT  LETED g Erectors ins	TED Jo	Kevin Parrobhn Montgo Chad Nancar  DN SITE  er building	mery frow	DEQ Ecology and Envir Ecology and Envir MATERIALS DELIV none	ronment, Inc. ronment, Inc. ERED TO SITE	Weekly Progress Weekly Progress WHO WAS NO	s Meeting fo s Meeting fo s Meeting fo s Meeting fo vTIFIED?	т САР

# Photodocumentation

E-1 002688.OY21.29.03

# PHOTOGRAPH IDENTIFICATION SHEET

# McCormick & Baxter Support Facility Modifications Project No. 002688.OY21.29.03

Photo No.	Date	Time	Ву	Direction	Description
1	4/04/05	11:48	GJ	S	Relocating existing field trailers.
2	4/05/05	10:53	GJ	SE	Excavated trench for new water main.
3	4/08/05	10:57	GJ	SE	New water main installed in trench.
4	4/08/05	10:50	GJ	N	New hydrant with concrete thrust block.
5	4/11/05	14:14	GJ	N	Pressure testing new water distribution system.
6	4/08/05	10:53	GJ	Down	New water valve with concrete thrust block.
7	4/12/05	11:26	GJ	SW	Pressure testing new service connections.
8	4/08/05	11:08	GJ	S	Installing backflow valve.
9	4/08/05	11:27	GJ	Down	Concrete thrust block for elbow to backflow valve.
10	4/11/05	14:13	GJ	S	Prepared subgrade for support facility area.
11	4/08/05	10:51	GJ	Down	Forms for shop sump.
12	4/15/05	14:17	GJ	N	Concrete piers for shop building columns.
13	6/21/05	11:01	GJ	Е	Shop building columns.
14	6/22/05	12:45	GJ	Е	Shop building framing.
15	6/24/05	16:26	GJ	Е	Shop building with roof insulation and panels partially installed.
16	9/26/05	07:57	LK	Е	Newly paved support area.
17	2/01/06	08:20	LK	Е	Completed shop building.
18	2/14/06	09:36	LK	SE	Hazardous waste storage area (note, cover installed under a different contract).
19	2/14/06	09:37	LK	Down	Sump for hazardous waste storage area.
20	2/14/06	09:41	LK	SE	Interior of new shop building.
21	2/14/06	09:45	LK	Up	Powered louver with fan in shop building.
22	2/14/06	09:46	LK	Up	Ceiling-mounted heater in shop building.
23	2/14/06	09:42	LK	SW	Power center and breaker panel in shop building.
24	2/14/06	09:51	LK	N	Main electrical breaker box.
25	2/14/06	10:05	LK	N	New utility pole.
26	2/14/06	10:05	LK	S	New electric meter (mounted on new utility pole).
27	2/14/06	09:35	LK	NE	New luminaire for support facility area.
28	2/14/06	09:48	LK	Down	Water valve and service lines vault.
29	2/14/06	09:55	LK	Е	Backflow valve vault.
30	2/14/06	09:33	LK	Е	New tire wash.

Key:

No. = Number SE = Southeast

GJ = Greg Jones SW = Southwest

 $egin{array}{llll} LK &=& Lenna \ Kennard & E &=& East \ N &=& North & W &=& West \end{array}$ 

NE = Northeast NW = Northwest S = South

002688.0Y21.29.03 E-2



Photo 1 Relocating existing field trailers.



Photo 3 New water main installed in trench.



Photo 2 Excavated trench for new water main.



Photo 4 New hydrant with concrete thrust block.





Photo 5 Pressure testing new water distribution system.



Photo 7 Pressure testing new service connections.



Photo 8 Installing backflow valve.





Photo 9 Concrete thrust block for elbow to backflow valve.



Photo 11 Forms for shop sump.



Photo 12 Concrete piers for shop building columns.



Photo 14 Shop building framing.



Photo 13 Shop building columns.



Photo 15 Shop building with roof insulation and panels partially installed.



Photo 16 Newly paved support area.



Photo 18 Hazardous waste storage area (note, cover installed under a different contract).



Photo 17 Completed shop building.





Photo 20 Interior of new shop building.



Photo 22 Ceiling-mounted heater in shop building.

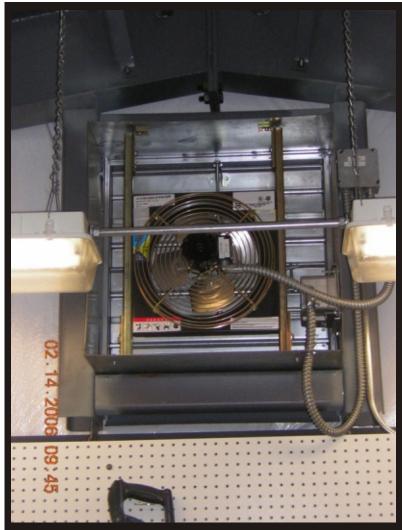


Photo 21 Powered louver with fan in shop building.



Photo 23 Power center and breaker panel in shop building.





Photo 25 New utility pole.





Photo 27 New luminaire for support facility area.



Photo 28 Water valve and service lines vault.



Photo 29 Backflow valve vault.



# PHOTOGRAPH IDENTIFICATION SHEET

# McCormick & Baxter Support Facility Modifications Project No. 002688.OY21.29.03

Photo No.	Date	Time	Ву	Direction	Description
1	4/04/05	11:48	GJ	S	Relocating existing field trailers.
2	4/05/05	10:53	GJ	SE	Excavated trench for new water main.
3	4/08/05	10:57	GJ	SE	New water main installed in trench.
4	4/08/05	10:50	GJ	N	New hydrant with concrete thrust block.
5	4/11/05	14:14	GJ	N	Pressure testing new water distribution system.
6	4/08/05	10:53	GJ	Down	New water valve with concrete thrust block.
7	4/12/05	11:26	GJ	SW	Pressure testing new service connections.
8	4/08/05	11:08	GJ	S	Installing backflow valve.
9	4/08/05	11:27	GJ	Down	Concrete thrust block for elbow to backflow valve.
10	4/11/05	14:13	GJ	S	Prepared subgrade for support facility area.
11	4/08/05	10:51	GJ	Down	Forms for shop sump.
12	4/15/05	14:17	GJ	N	Concrete piers for shop building columns.
13	6/21/05	11:01	GJ	Е	Shop building columns.
14	6/22/05	12:45	GJ	Е	Shop building framing.
15	6/24/05	16:26	GJ	Е	Shop building with roof insulation and panels partially installed.
16	9/26/05	07:57	LK	Е	Newly paved support area.
17	2/01/06	08:20	LK	Е	Completed shop building.
18	2/14/06	09:36	LK	SE	Hazardous waste storage area (note, cover installed under a different contract).
19	2/14/06	09:37	LK	Down	Sump for hazardous waste storage area.
20	2/14/06	09:41	LK	SE	Interior of new shop building.
21	2/14/06	09:45	LK	Up	Powered louver with fan in shop building.
22	2/14/06	09:46	LK	Up	Ceiling-mounted heater in shop building.
23	2/14/06	09:42	LK	SW	Power center and breaker panel in shop building.
24	2/14/06	09:51	LK	N	Main electrical breaker box.
25	2/14/06	10:05	LK	N	New utility pole.
26	2/14/06	10:05	LK	S	New electric meter (mounted on new utility pole).
27	2/14/06	09:35	LK	NE	New luminaire for support facility area.
28	2/14/06	09:48	LK	Down	Water valve and service lines vault.
29	2/14/06	09:55	LK	Е	Backflow valve vault.
30	2/14/06	09:33	LK	Е	New tire wash.

Key:

No. = Number SE = Southeast

GJ = Greg Jones SW = Southwest

NE = Northeast NW = Northwest S = South

002688.OY21.29.03 E-2